



# STIC Search Report

## Biotech-Chem Library

STIC Database Tracking Number: 206221

TO: Quang Nguyen  
Location: rem/2E81/2C70  
Art Unit: 1633  
Thursday, November 02, 2006  
Case Serial Number: 10/706798

From: Kristine Hensle  
Location: Biotech-Chem Library  
REM-1B69  
Phone: (571) 272-4161

Kristine. Hensle@uspto.gov

### Search Notes

Examiner Nguyen,

See attached results.

If you have any questions about this search feel free to contact me at any time.

Thank you for using STIC search services!

Kristine Hensle  
Librarian (ASRC Aerospace)  
STIC Biotech/Chem Library  
(571)272-4161

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GenCore version 5.1.9  
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OM nucleic - nucleic search, using sw model

Run on: November 1, 2006, 19:39:18 ; Search time 1837.86 Seconds  
(without alignments)  
2887.948 Million cell updates/sec

Title: US-10-706-798-1

Perfect score: 83  
Sequence: 1 ccuugaguuaguuagucagc.....gcugccucaaauaacaag 83

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 6366136 seqs, 31973710525 residues  
Total number of hits satisfying chosen parameters: 12732272

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : GenEmbl:.\*  
1: gb\_env:.\*  
2: gb\_pat:.\*  
3: gb\_ph:.\*  
4: gb\_dl:.\*  
5: gb\_pr:.\*  
6: gb\_ro:.\*  
7: gb\_bts:.\*  
8: gb\_gy:.\*  
9: gb\_un:.\*  
10: gb\_vi:.\*  
11: gb\_ov:.\*  
12: gb\_hcg:.\*  
13: gb\_in:.\*  
14: gb\_om:.\*  
15: gb\_ba:.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	83	100.0	83	2	CS185098
2	83	100.0	83	2	CS188802
3	83	100.0	663	5	AY866304
4	83	100.0	712	5	AY866308
5	83	100.0	747	5	AY866306
6	83	100.0	825	5	AY866302
7	83	100.0	836	5	AY866299
8	83	100.0	871	5	AY866301
9	83	100.0	896	5	AY866305
10	83	100.0	901	5	AY866300
11	83	100.0	902	5	AY866307
12	83	100.0	914	5	AY866303
13	83	100.0	153092	5	AC069475
14	83	100.0	154868	5	AF334404
15	83	100.0	154887	5	AL137060
16	83	100.0	184155	12	AC155017
17	83	100.0	235659	12	AC152429
18	83	100.0	347503	5	AF279660

C	19	83	100.0	350000	5	AF440619
C	20	79	95.2	108	2	CS188801
C	21	71.8	86.5	172152	6	AC154660
C	22	40	48.2	40	2	CS189094
C	23	40	48.2	40	2	CS189095
C	24	35.8	43.1	150820	12	AC154053
C	25	35.2	42.4	97210	11	AL606727
C	26	35.2	42.4	214290	11	BX294379
C	27	33.4	40.2	83	2	CS185098
C	28	33.4	40.2	83	2	CS188802
C	29	33.4	40.2	663	5	AY866308
C	30	33.4	40.2	712	5	AY866306
C	31	33.4	40.2	747	5	AY866306
C	32	33.4	40.2	825	5	AY866302
C	33	33.4	40.2	836	5	AY866299
C	34	33.4	40.2	871	5	AY866301
C	35	33.4	40.2	896	5	AY866305
C	36	33.4	40.2	901	5	AY866300
C	37	33.4	40.2	902	5	AY866307
C	38	33.4	40.2	914	5	AY866303
C	39	33.4	40.2	153092	5	AC069475
C	40	33.4	40.2	154868	5	AF334404
C	41	33.4	40.2	154887	5	AL137060
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C	43	33.4	40.2	188644	11	CR478286
C	44	33.4	40.2	235659	12	AC152429
C	45	33.4	40.2	347503	5	AF279660

ALIGNMENTS

AF440619	Homo sapi
CS188801	Sequence
AC154660	Mus muscu
CS189094	Sequence
CS189095	Sequence
AC154053	Ictalurus
AL606727	Zebrafish
BX294379	Zebrafish
CS185098	Sequence
CS188802	Sequence
AY866308	Lemur cat
AY866306	Lagotrix
AY866306	Pongo pyg
AY866302	Sagunus
AY866299	Ateles ge
AY866301	Macaca ne
AY866305	Macaca mu
AY866300	Gorilla g
AY866307	Pan trogl
AY866303	Pan panis
AC069475	Homo sapi
AF334404	Homo sapi
AL137060	Human DNA
AC155017	Bos tauru
CR478286	Zebrafish
AC152429	Bos tauru
AF279660	Homo sapi

RESULT 1	CS185098	83 bp	RNA	linear	PAT 01-NOV-2005
LOCUS	CS185098	72	from Patent WO2005098029.		
DEFINITION	Sequence				
ACCESSION	CS185098				
VERSION	CS185098.1	GI:78585070			
KEYWORDS					
SOURCE					
ORGANISM	Homo sapiens (human)				
REFERENCE	Jacobsen, N.				
AUTHORS					
TITLE	NOVEL METHODS FOR QUANTIFICATION OF MICRORNAS AND SMALL INTERFERING				
JOURNAL	Patent: WO 2005098029-A 72 20-OCT-2005;				
FEATURES	Exigon A/S (DK)				
source	1. 83				
ORIGIN	1. 83				
Query Match	100.0%; Score 83; DB 2; Length 83;				
Best Local Similarity	73.5%; Pred. No. 1.4e-20;				
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Db	1 CCTTGAGGTAAGTAGACGACATTAATGTTGTGTGATTTGAAAAAGGTGACGGCCATAT 60				
Cy	61 UGUGCUCGUCACAAAUUACAAAG 83				
Db	61 TGTGCTGCTCAAAATAATACAAAG 83				
RESULT 2	CS188802	83 bp	DNA	linear	PAT 04-NOV-2005
LOCUS	CS188802				

DEFINITION	Sequence 33 from Patent WO2005078139.
ACCESSION	CS1888602
VERSION	CS1888602.1 GI:80749791
KEYWORDS	.
SOURCE	Homo sapiens (human)
ORGANISM	Homo sapiens
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homnidae; Homo. 1
AUTHORS	Croce,C.M. Patent: WO 2005078139-A 33 25-AUG-2005;
JOURNAL	THOMAS JEFFERSON UNIVERSITY (US)
FEATURES	Location/Qualifiers source 1..83 /organism="Homo sapiens" /mol_type="unassigned DNA" /db_xref="taxon:9606"
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Best Local Similarity	73.5%; Pred.No.1.4e-20;
Matches	61; Conservative 22; Mismatches 0; Indels 0; Gaps 0;
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LOCUS	AY866304 663 bp DNA linear PRI 24-JAN-2005
DEFINITION	Lemur catca microRNA mir-15a and microRNA mir-16-1 genes, complete sequence.
ACCESSION	AY866304
VERSION	AY866304.1 GI:57903106
KEYWORDS	.
SOURCE	Lemur catca (ring-tailed lemur)
ORGANISM	Lemur catca
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Strepsithini; Lemuridae; Lemur. 1 (bases 1 to 663) Berezikov,E., Gurjev,V., van de Belt,J., Wienholds,E., Plasterk,R.H., and Cuppen,E. Phylogenetic Shadowing and Computational Identification of Human microRNA Genes Cell 120 (1), 21-24 (2005) 15652478
TITLE	2 (bases 1 to 663) Berezikov,E., Gurjev,V., van de Belt,J., Wienholds,E., Plasterk,R.H.A., and Cuppen,E. Direct Submission Submitted (29-DEC-2004) Hubrecht Laboratory, Uppsalaiaan 8, Utrecht 3584 CT, The Netherlands
JOURNAL	Location/Qualifiers PUBMED
REFERENCE	1..663
AUTHORS	/organism="Lemur catca" /mol_type="genomic DNA" /db_xref="taxon:9447"
TITLE	450..532 /product="precursor microRNA mir-15a" /note="Based on Homo sapiens mir-15a"
JOURNAL	463..484 /product="microRNA mir-15a" 590..663 /product="precursor microRNA mir-16-1" /note="Based on Homo sapiens mir-16-1"
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Matches	61; Conservative 22; Mismatches 0; Indels 0; Gaps 0;
QY	1 CCUGGAGUAAAGUAGCAGCAUAUGUGUGUGAUUUUGAAAGGUGCAGGCCAUU 60
DB	450 CTTGGAGTAAGTAGGAGCAGCACTAATGTTTGATTTTGAAAGGTGAGGCCATAT 509
QY	61 UUGUGUGCCUCAAUAUACAAG 83
DB	510 TTGTGCTGCTCAAAAATACAAG 532
RESULT 4	
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LOCUS	lagotrinx lagotrinx microRNA mir-15a and microRNA mir-16-1 genes,
DEFINITION	complete sequence.
ACCESSION	AY866308
VERSION	AY866308.1 GI:57903110
KEYWORDS	
SOURCE	lagotrinx lagotrinx (common woolly monkey)
ORGANISM	lagotrinx lagotrinx
REFERENCE	Bukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS	Mammalia; Eutheria; Euarchontoglires; Primates; Platyrrhini;
TITLE	Cebidae; Atelinae; lagotrinx.
JOURNAL	1 (bases 1 to 712)
PUBMED	Berezikov,E., Gur'yev,V., van de Belt,J., Wienholde,E.,
REFERENCE	Plasterk,R.H. and Cuppen,E.
AUTHORS	Phylogenetic Shadowing and Computational Identification of Human
TITLE	microRNA Genes
JOURNAL	Cell 120 (1), 21-24 (2005)
PUBMED	15652478
REFERENCE	2 (bases 1 to 712)
AUTHORS	Berezikov,E., Gur'yev,V., van de Belt,J., Wienholde,E.,
TITLE	Plasterk,R.H.A. and Cuppen,E.
JOURNAL	Direct Submission
FEATURES	Submitted (29-DEC-2004) Hubrecht Laboratory, Uppsalalaan 8, Utrecht
source	3584 CT, The Netherlands
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DB	390 CTTGGAGTAAGTAGGAGCAGCACTAATGTTTGATTTTGAAAGGTGAGGCCATAT 449
QY	61 UUGUGUGCCUCAAUAUACAAG 83
DB	450 TTGTGCTGCTCAAAAATACAAG 472
RESULT 5	



AY866306 747 bp DNA linear PRI 24-JAN-2005  
LOCUS AY866306  
DEFINITION Pongo pygmaeus microRNA mir-15a and microRNA mir-16-1 genes,  
complete sequence.  
ACCESSION AY866306  
VERSION AY866306.1 GI:57903108  
KEYWORDS  
SOURCE Pongo pygmaeus (orangutan)  
ORGANISM Pongo pygmaeus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;  
Homidae; Pongo.  
REFERENCE 1 (bases 1 to 747)  
Berezikov,E., Gurjev,V., van de Belt,J., Wienholds,E.,  
Plasterk,R.H., and Cuppen,E.  
Phylogenetic Shadowing and Computational Identification of Human  
microRNA Genes  
JOURNAL Cell 120 (1), 21-24 (2005)  
PUBMED 15652478  
REFERENCE 2 (bases 1 to 747)  
Berezikov,E., Gurjev,V., van de Belt,J., Wienholds,E.,  
Plasterk,R.H.A., and Cuppen,E.  
Direct Submission  
AUTHORS Submitted (29-DEC-2004) Hubrecht Laboratory, Uppsalaalan 8, Utrecht  
JOURNAL 3584 CT, The Netherlands  
TITLE Location/Qualifiers  
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617..705  
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Best Local Similarity 73.5%; Pred. No. 1.6e-20;  
Matches 61; Conservative 22; Mismatches 0; Indels 0; Gaps 0;  
QY 1 CCTUGAGUAAAGUAGCAGCAUAUGGUTUGAUAUUUGAAAGGUGAGCCCAU 60  
Db 477 CTTTGAGTAAAGTAGACGACATATGCTTTGTGATTTGAAAGGTGACGACCATAT 536  
QY 61 UGUGCUGCCUCAAUAUACAAG 83  
Db 537 TGTCTGCTCAAAATACAAAG 559

RESULT 6  
LOCUS AY866302 825 bp DNA linear PRI 24-JAN-2005  
DEFINITION Segunus labiatus microRNA mir-15a and microRNA mir-16-1 genes,  
complete sequence.  
ACCESSION AY866302  
VERSION AY866302.1 GI:57903104  
KEYWORDS  
SOURCE Segunus labiatus (red-chested mustached tamarin)  
ORGANISM Segunus labiatus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Euarchontoglires; Primates; Platyrrhini;  
Callitrichidae; Segunus.  
REFERENCE 1 (bases 1 to 825)  
Berezikov,E., Gurjev,V., van de Belt,J., Wienholds,E.,  
Plasterk,R.H., and Cuppen,E.  
Phylogenetic Shadowing and Computational Identification of Human  
microRNA Genes  
TITLE

JOURNAL Cell 120 (1), 21-24 (2005)  
PUBMED 15652478  
REFERENCE 2 (bases 1 to 825)  
Berezikov,E., Gurjev,V., van de Belt,J., Wienholds,E.,  
Plasterk,R.H.A., and Cuppen,E.  
Direct Submission  
AUTHORS Submitted (29-DEC-2004) Hubrecht Laboratory, Uppsalaalan 8, Utrecht  
JOURNAL 3584 CT, The Netherlands  
TITLE Location/Qualifiers  
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Db 448 CTTTGAGTAAAGTAGACGACATATGCTTTGTGATTTGAAAGGTGACGACCATAT 507  
QY 61 UGUGCUGCCUCAAUAUACAAG 83  
Db 508 TGTCTGCTCAAAATACAAAG 530

RESULT 7  
LOCUS AY866299 836 bp DNA linear PRI 24-JAN-2005  
DEFINITION Ateles Geoffroyi microRNA mir-15a and microRNA mir-16-1 genes,  
complete sequence.  
ACCESSION AY866299  
VERSION AY866299.1 GI:57903101  
KEYWORDS  
SOURCE Ateles Geoffroyi (black-handed spider monkey)  
ORGANISM Ateles Geoffroyi  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Euarchontoglires; Primates; Platyrrhini;  
Cebidae; Ateleinae; Ateles.  
REFERENCE 1 (bases 1 to 836)  
Berezikov,E., Gurjev,V., van de Belt,J., Wienholds,E.,  
Plasterk,R.H., and Cuppen,E.  
Phylogenetic Shadowing and Computational Identification of Human  
microRNA Genes  
JOURNAL Cell 120 (1), 21-24 (2005)  
PUBMED 15652478  
REFERENCE 2 (bases 1 to 836)  
Berezikov,E., Gurjev,V., van de Belt,J., Wienholds,E.,  
Plasterk,R.H.A., and Cuppen,E.  
Direct Submission  
AUTHORS Submitted (29-DEC-2004) Hubrecht Laboratory, Uppsalaalan 8, Utrecht  
JOURNAL 3584 CT, The Netherlands  
TITLE Location/Qualifiers  
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Best Local Similarity 73.5%; Pred. No. 1.6e-20;
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QY 61 UGUGCUGCCUCAAUAUACAAG 83
Db 524 TGTGCTGCTCAAAATACAAAG 546

RESULT 8
AY866301      871 bp      DNA      linear      PRI 24-JAN-2005
LOCUS      Macaca nemestrina microRNA mir-15a and microRNA mir-16-1 genes,
DEFINITION      complete sequence.
ACCESSION      AY866301
VERSION      AY866301.1 GI:57903103
KEYWORDS
SOURCE      Macaca nemestrina (pig-tailed macaque)
ORGANISM      Macaca nemestrina
               Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
               Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
               Cercopithecoidea; Cercopithecinae; Macaca.
REFERENCE      1 (bases 1 to 871)
               Berezikov,E., Guryev,V., van de Belt,J., Wienholds,E.,
               Plasterk,R.H. and Cuppen,E.
               Phylogenetic Shadowing and Computational Identification of Human
               microRNA Genes
               Cell 120 (1), 21-24 (2005)
15652478

TITLE      Macaca nemestrina microRNA mir-15a and microRNA mir-16-1 genes
JOURNAL      PUBLISHED
PUBMED      15652478
CELL 120 (1), 21-24 (2005)

AUTHORS      2 (bases 1 to 871)
               Berezikov,E., Guryev,V., van de Belt,J., Wienholds,E.,
               Plasterk,R.H.A. and Cuppen,E.
               Direct Submission
               Submitted (29-DEC-2004) Hubrecht Laboratory, Uppsalalaan 8, Utrecht
               3584 CT, The Netherlands
FEATURES
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Best Local Similarity 73.5%; Pred. No. 1.6e-20;
Matches 61; Conservative 22; Mismatches 0; Indels 0; Gaps 0;

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QY 61 UGUGCUGCCUCAAUAUACAAG 83
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Db 533 TGTGCTGCTCAAAATACAAAG 555
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RESULT 9
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LOCUS      Macaca mulatta microRNA mir-15a and microRNA mir-16-1 genes,
DEFINITION      complete sequence.
ACCESSION      AY866305
VERSION      AY866305.1 GI:57903107
KEYWORDS
SOURCE      Macaca mulatta (rhesus monkey)
ORGANISM      Macaca mulatta
               Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
               Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
               Cercopithecoidea; Cercopithecinae; Macaca.
REFERENCE      1 (bases 1 to 896)
               Berezikov,E., Guryev,V., van de Belt,J., Wienholds,E.,
               Plasterk,R.H. and Cuppen,E.
               Phylogenetic Shadowing and Computational Identification of Human
               microRNA Genes
               Cell 120 (1), 21-24 (2005)
15652478

TITLE      Macaca mulatta microRNA mir-15a and microRNA mir-16-1 genes
JOURNAL      PUBLISHED
PUBMED      15652478
CELL 120 (1), 21-24 (2005)

AUTHORS      2 (bases 1 to 896)
               Berezikov,E., Guryev,V., van de Belt,J., Wienholds,E.,
               Plasterk,R.H.A. and Cuppen,E.
               Direct Submission
               Submitted (29-DEC-2004) Hubrecht Laboratory, Uppsalalaan 8, Utrecht
               3584 CT, The Netherlands
FEATURES
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misc_RNA
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Query Match      100.0%; Score 83; DB 5; Length 896;
Best Local Similarity 73.5%; Pred. No. 1.6e-20;
Matches 61; Conservative 22; Mismatches 0; Indels 0; Gaps 0;

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REFERENCE 1 (bases 1 to 901)  
AUTHORS Berezikov,E., Gurjev,V., van de Belt,J., Wienholds,E.,  
Plasterk,R.H., and Cuppen,E.  
TITLE Phylogenetic Shadowing and Computational Identification of Human  
microRNA Genes  
JOURNAL Cell 120 (1), 21-24 (2005)  
PUBMED 15652478  
REFERENCE 2 (bases 1 to 901)  
AUTHORS Berezikov,E., Gurjev,V., van de Belt,J., Wienholds,E.,  
Plasterk,R.H.A., and Cuppen,E.  
TITLE Direct Submission  
JOURNAL Submitted (29-DEC-2004) Hubrecht Laboratory, Uppsalaalan 8, Utrecht  
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REFERENCE 1 (bases 1 to 902)  
AUTHORS Berezikov,E., Gurjev,V., van de Belt,J., Wienholds,E.,  
Plasterk,R.H., and Cuppen,E.  
TITLE Phylogenetic Shadowing and Computational Identification of Human  
microRNA Genes  
JOURNAL Cell 120 (1), 21-24 (2005)  
PUBMED 15652478  
REFERENCE 2 (bases 1 to 902)  
AUTHORS Berezikov,E., Gurjev,V., van de Belt,J., Wienholds,E.,  
Plasterk,R.H.A., and Cuppen,E.  
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KEYWORDS  
SOURCE Pan paniscus (pygmy chimpanzee)  
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REFERENCE 1 (bases 1 to 914)  
AUTHORS Berezikov,E., Gurjev,V., van de Belt,J., Wienholds,E.,  
Plasterk,R.H., and Cuppen,E.  
TITLE Phylogenetic Shadowing and Computational Identification of Human  
microRNA Genes  
JOURNAL Cell 120 (1), 21-24 (2005)  
PUBMED 15652478  
REFERENCE 2 (bases 1 to 914)  
AUTHORS Berezikov,E., Gurjev,V., van de Belt,J., Wienholds,E.,  
Plasterk,R.H.A., and Cuppen,E.  
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JOURNAL Submitted (29-DEC-2004) Hubrecht Laboratory, Uppsalaalan 8, Utrecht  
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LOCUS	AL137060/c
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ACCESSION	AL137060
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KEYWORDS	HTG; BCM5; BCM5UN; CpG island; DLEU1; DLEU2; LEU1; LEU2; lymphocytic leukemia; RFP2; RPL18.
SOURCE	Homo sapiens (human)
ORGANISM	Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homiidae; Homo.
REFERENCE	1 (bases 1 to 154887) Pearce,A. Direct Submission Submitted (13-MAY-2005) Wellcome Trust Sanger Institute, Hinxton, Cambridgeshire, CB10 1SA, UK. E-mail enquiries: vegas@sanger.ac.uk Clone requests: clonerequest@sanger.ac.uk On Nov 8, 2000 this sequence version replaced gi:11022355. The following abbreviations are used to associate accession numbers given in the feature table with their source databases: Em; EMBL; SW; SWISSPROT; Tr; TREMBL; Wp; WORMEP; Information on the WORMEP database can be found at http://www.sanger.ac.uk/Projects/C_elegans/wormep This sequence was generated from part of bacterial clone contig of human chromosome 13, constructed by the Sanger Centre Chromosome 13 Mapping group. Further information can be found at http://www.sanger.ac.uk/HGP/Chr13 RP11-34F20 is from the library RPCI-11.1 constructed by the group of Pieter de Jong. For further details see http://www.chori.org/bacpac/home.htm VECTOR: pBAC3.6
COMMENT	----- Genome Center Center: Wellcome Trust Sanger Institute Center code: SC Web site: http://www.sanger.ac.uk Contact: vegas@sanger.ac.uk ----- This sequence was finished as follows unless otherwise noted: all regions were either double-stranded or sequenced with an alternate chemistry or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by at least one subclone; and the assembly was confirmed by restriction digest, except on the rare occasion of the clone being a YAC. Location/Qualifiers 1.154887 /organism="Homo sapiens" /mol_type="genomic DNA" /db_xref="taxon:9606" /chromosome="13" /clone="RP11-34F20" /clone_1fb="RPCI-11.1" 1 /note="Clone 1eft_end: RP11-34F20" join(AL391993.20:26230..26342,AL391993.20:26878..26974,5394..7790) /gene="RFP2" /locus_tag="RP11-34F20.3-005" join(AL391993.20:26230..26342,AL391993.20:26878..26974,5394..7790) /gene="RFP2" /locus_tag="RP11-34F20.3-005" /product="ret finger protein 2" /note="match: ESTs: A1082097 A1174535 A140065 A133784 A1637644 A167587 AL526848 AU117766 AU134155 AU155253 AW874522 AW961863 BG054611 BG401428 BI090269 BI183262 BI194225 B1562426 BMS63515 BM673398 BM682100 EN811480
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Matches 61; Conservative 22; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCUGGAGUAAAGUAGCAGACAUAAUGGUGUGAGUUTUGAAAAGUGCAGGCCAUU 60
||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
DB 42660 CCTTGAGTAAGTAGACACATATATGTTGTGATTTTGAAAAGTGACAGCCATAT 42601
:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
QY 61 UUGUGUGCCUCGAAAUAUACAAG 83
:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
DB 42600 TGTGCTGCTCAAAATACAAAG 42576
:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
```

Search completed: November 1, 2006, 20:59:43  
Job time : 1838.86 secs

GenCore version 5.1.9  
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OM nucleic - nucleic search, using bw model

Run on: November 1, 2006, 19:02:55 / Search time 397.61 Seconds  
(without alignments)  
1455.440 Million cell updates/sec

Title: US-10-706-798-1  
Perfect score: 83  
Sequence: 1 ccugagagaaagagacagc.....gvcgcucaaaaauacag 83

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 5244920 seqs, 3486124231 residues

Total number of hits satisfying chosen parameters: 10489840

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : N\_Geneseq\_8:\*  
1: geneseqn1980s:\*  
2: geneseqn1990s:\*  
3: geneseqn2000s:\*  
4: geneseqn2001as:\*  
5: geneseqn2001bs:\*  
6: geneseqn2002as:\*  
7: geneseqn2002bs:\*  
8: geneseqn2003as:\*  
9: geneseqn2003bs:\*  
10: geneseqn2003cs:\*  
11: geneseqn2003ds:\*  
12: geneseqn2004as:\*  
13: geneseqn2004bs:\*  
14: geneseqn2005s:\*  
15: geneseqn2006s:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	83	100.0	83	12	AD017089 Human miR
2	83	100.0	83	14	AE892620 Human miR
3	83	100.0	83	14	AE892620 Human miR
4	83	100.0	83	15	AE892620 Human miR
5	83	100.0	83	15	AE892620 Human miR
6	83	100.0	310	14	AD03808 Human miR
7	83	100.0	4214	4	AAK72317 Human imm
8	82	98.8	110	14	AD03045 Human pri
9	80	96.4	110	14	AD03045 Human pri
10	79	95.2	108	14	AE892619 Human miR
11	68.6	82.7	83	15	AE892619 Mouse pri
12	61.8	74.5	70	14	AD04205 Human pri
13	40	48.2	40	14	AE892912 Human miR
14	40	48.2	83	12	AD017089 Human miR
15	33.4	40.2	83	14	AE892620 Human miR
16	33.4	40.2	83	14	AE892620 Human miR
17	33.4	40.2	83	14	AE892620 Human miR
18	33.4	40.2	83	15	AE892620 Human miR

C	19	33.4	40.2	83	15	AE892620 Human miR
C	20	33.4	40.2	310	14	AD03808 Human miR
C	21	33.4	40.2	4214	4	AAK72317 Human imm
C	22	32.4	39.0	110	14	AD03045 Human pri
C	23	30.4	36.6	110	14	AD03045 Human pri
C	24	30.4	36.6	90001	15	AE892619 Human miR
C	25	30.4	36.1	108	14	AE892619 Human miR
C	26	29.6	35.7	108	14	AE892619 Human miR
C	27	28.4	34.2	2492	4	AAK72317 Human imm
C	28	28	33.7	1313	14	AE892619 Human miR
C	29	27.6	33.0	4745	14	AE892619 Human miR
C	30	27.4	33.0	267	8	ACA23222 Prokaryot
C	31	27.4	33.0	2843	4	AAH16588 Human CDN
C	32	27.4	33.0	4940	10	ADP82143 Leukaemia
C	33	27.4	33.0	4940	10	ADP82143 Leukaemia
C	34	27.4	33.0	110000	2	AAK20248 Borrelia
C	35	27.2	32.8	85	14	AD04176 Human pri
C	36	27.2	32.8	98	14	AE892622 Human miR
C	37	27.2	32.8	98	15	AE892622 Human miR
C	38	27.2	32.8	98	15	AE892622 Human miR
C	39	27.2	32.8	110	14	AD02997 Human pri
C	40	27.2	32.8	66743	4	ABL27118 Drosophila
C	41	27.2	32.5	27	14	AD03789 Human pri
C	42	27	32.5	3396	13	AD047216 Bacterial
C	43	27	32.5	3396	13	AD047216 Bacterial
C	44	27	32.5	64125	13	ABD33295 Human can
C	45	27	32.5	96599	10	ADC85298 Human Egr

## ALIGNMENTS

RESULT 1	AD017089	standard; RNA; 83 BP.
ID	AD017089	standard; RNA; 83 BP.
AC	AD017089;	
XX	12-AUG-2004	(first entry)
DT	12-AUG-2004	(first entry)
XX	Human miR15 precursor RNA sequence SeqID1.	
DE	Human miR15 precursor RNA sequence SeqID1.	
XX	miR15; cancer; proliferation; cancer cell; cytoskeletal;	
KW	gene therapy; chronic lymphocytic leukaemia; prostate cancer; micro RNA;	
KM	chromosome 13q14; human; ss.	
XX		
OS	Homo sapiens.	
FX		
FH	Key	Location/Qualifiers
FT	misc_binding	1..5
FT	misc_binding	/tag= a
FT	misc_binding	/bound_moiety= "Binds to itself"
FT	misc_binding	/note= "Forms a double stranded region with bases 83-79 of itself"
FT	misc_binding	16..23
FT	misc_binding	/tag= b
FT	misc_binding	/bound_moiety= "Binds to itself"
FT	misc_binding	/note= "Forms a double stranded region with bases 68-61 of itself"
FT	misc_binding	26..35
FT	misc_binding	/tag= c
FT	misc_binding	/bound_moiety= "Binds to itself"
FT	misc_binding	/note= "Forms a double stranded region with bases 58-49 of itself"
FT	misc_binding	38..40
FT	misc_binding	/tag= d
FT	misc_binding	/bound_moiety= "Binds to itself"
FT	misc_binding	/note= "Forms a double stranded region with bases 46-44 of itself"
FT	misc_binding	44..46
FT	misc_binding	/tag= e
FT	misc_binding	/bound_moiety= "Binds to itself"
FT	misc_binding	/note= "Forms a double stranded region with bases 40-38 of itself"

```
FT misc_binding of itself"
FT 49..58 /*tag= f
FT /bound_molety= "binds to itself"
FT /note= "Forms a double stranded region with bases 35-26
FT of itself"
FT misc_binding /*tag= g
FT /bound_molety= "binds to itself"
FT /note= "Forms a double stranded region with bases 23-16
FT of itself"
FT misc_binding /*tag= h
FT /bound_molety= "binds to itself"
FT /note= "Forms a double stranded region with bases 5-1 of
FT itself"
FT
FT WO2004043387-A2.
PN
XX
XX 27-MAY-2004.
PD
XX
XX 12-NOV-2003; 2003WO-US035777.
PF
XX 13-NOV-2002; 2002US-0425864P.
PR
XX 09-MAY-2003; 2003US-0469464P.
PR
XX (UYJE-) UNIV JEFFERSON THOMAS.
PA
XX
XX Croce CM, Calin GA;
PI
XX WPI; 2004-400825/37.
DR
XX
XX Treating an miR15 or miR16 mediated cancer, i.e. chronic lymphocytic
PT leukemia or prostate cancer, comprises administering to the subject an
PT miR15 or miR16 gene product.
PT
XX
XX Claim 64; SEQ ID NO 1; 73pp; English.
PS
XX
XX This invention relates to a novel method of treating an miR15 or miR16
CC mediated cancer in a subject which comprises administering to the subject
CC an amount of an isolated miR15 or miR16 gene product such that
CC proliferation of miR15 or miR16 mediated cancer cells is inhibited. The
CC miR15 and miR16 micro RNA genes are localised to 13q14 in humans, a
CC region that is deleted in a significant portion of subjects suffering
CC from chronic lymphocytic leukemia or prostate cancer. The products of
CC the miR15 and miR16 genes have also been found to inhibit the neoplastic
CC or tumorigenic growth of chronic lymphocytic leukemia or prostate
CC cancer cells. The invention may be useful for the production of compounds
CC with a cytostatic activity. In addition the invention may also be useful
CC for gene therapy using the miR15 or miR16 gene product. The methods and
CC compositions are useful in diagnosing and treating miR15 or miR16
CC mediated cancer, i.e. chronic lymphocytic leukemia or prostate cancer.
CC The present sequence is that of the human miR15 precursor RNA sequence
CC which is used in the method of the invention.
CC
XX
XX Sequence 83 BP; 26 A; 13 C; 22 G; 0 T; 22 U; 0 Other;
SQ
Query Match 100.0%; Score 83; DB 12; Length 83;
Best Local Similarity 100.0%; Pred. NO. 2.1e-20;
Matches 83; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CCUUGGAGUAAAGUAGCACAUAUAGUUGUUGUAGAAAGUGGAGCCAUU 60
Db 1 CCUUGGAGUAAAGUAGCACAUAUAGUUGUUGUAGAAAGUGGAGCCAUU 60
QY 61 UGUGCUGCCUCAAUUAUACAAG 83
Db 61 UGUGCUGCCUCAAUUAUACAAG 83
```

```
XX
XX AEB92620;
AC
XX
XX 03-NOV-2005 (first entry)
DT
XX
XX Human microRNA gene SEQ ID NO 33.
DE
XX
XX cyostatic; gene therapy; diagnosis; prognosis; pharmaceutical;
KW gene expression; musculoskeletal disease; hematological disease;
KW immunostimulant; andrology; neurological disease; dermatological disease;
KW endocrine disease; gynecology and obstetrics; respiratory disease;
KW gastrointestinal disease; genitourinary disease; cancer; neoplasia;
KW microRNA; miR; ss; biochip.
XX
XX Homo sapiens.
OS
XX
XX WO2005078139-A2.
PN
XX
XX 25-AUG-2005.
PD
XX
XX 09-FEB-2005; 2005WO-US004865.
PF
XX
XX 09-FEB-2004; 2004US-0542929P.
PR
XX 09-FEB-2004; 2004US-0542940P.
PR
XX 09-FEB-2004; 2004US-0542963P.
PR
XX 09-FEB-2004; 2004US-0543119P.
PR
XX 18-JUN-2004; 2004US-0580797P.
PR
XX 18-JUN-2004; 2004US-0580959P.
PA
XX
XX (UYJE-) UNIV JEFFERSON THOMAS.
PI
XX
XX Croce CM, Liu C, Calin GA;
PI
XX WPI; 2005-571622/58.
DR
XX
XX Diagnosing a cancer-associated chromosomal feature, e.g. bladder cancer,
PT tumors, or myelodysplastic syndrome, comprises evaluating a miR gene in
PT the test sample.
PT
XX
XX Example 1; SEQ ID NO 33; 170pp; English.
PS
XX
XX The invention describes diagnosing whether a subject has, or is at risk
CC for developing, a cancer linked to a cancer-associated chromosomal
CC feature, comprises evaluating the status in the subject of at least one
CC microRNA (miR) gene located in close proximity to the cancer-associated
CC chromosomal feature. Also described are a pharmaceutical composition
CC comprising an isolated miR gene product or a nucleic acid encoding an
CC isolated miR gene product from an miR gene located in close proximity to
CC a cancer-associated chromosomal feature and is not miR15 or miR16, and a
CC pharmaceutical carrier; and a method of treating cancer associated with a
CC cancer-associated chromosomal feature in a subject. The miR, composition,
CC and method are useful for diagnosing and treating a cancer-associated
CC chromosomal feature, where the cancer is bladder cancer, esophageal
CC cancer, lung cancer, stomach cancer, kidney cancer, cervical cancer,
CC ovarian cancer, breast cancer, lymphoma, ewing sarcoma, hematopoietic
CC tumor, solid tumors, gastric cancer, colorectal cancer, brain cancer,
CC epithelial cancer, nasopharyngeal cancer, uterine cancer, hepatic cancer,
CC head-and-neck cancer, renal cancer, male germ cell tumors, malignant
CC mesothelioma, myelodysplastic syndrome, pancreatic or biliary cancer,
CC prostate cancer, thyroid cancer, urothelial cancer, renal cancer, Wilm's
CC tumor, small cell lung cancer, melanoma, skin cancer, osteosarcoma,
CC neuroblastoma, leukemia (acute lymphocytic leukemia, acute myeloid
CC leukemia, chronic lymphocytic leukemia), glioblastoma multiforme,
CC medulloblastoma, lymphoplasmacytoid lymphoma, rhabdomyosarcoma, B-cell
CC chronic lymphocytic leukemia, or B-cell chronic lymphocytic leukemia
CC associated with an unmutated IghV gene, ZAP-70 expression, CD38
CC expression, a deletion at chromosome 11q23, a loss or mutation of TP53 or
CC their combination. This sequence represents a human microRNA (miRNA)
CC gene.
XX
XX Sequence 83 BP; 26 A; 13 C; 22 G; 22 T; 0 U; 0 Other;
SQ
Query Match 100.0%; Score 83; DB 14; Length 83;
```



```
Best Local Similarity 73.5%; Pred. No. 2.1e-20;
Matches 61; Conservative 22; Mismatches 0; Indels 0; Gaps 0;
OY 1 CCUGGAGUAAAGAGCAGCAUAUGGUTUGGAAUUGAAAGGUGCAGGCCAUU 60
    |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 1 CTTGGAGTAAGTAGCAGCACAATATGTTTGATTTGAAAGGTGAGCCATAT 60
    :||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
OY 61 UGUGCUGCCUCAAUAUACAAG 83
    :||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 61 TGTGCTGCTCAAAATATCAAG 83
    :||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||

RESULT 3
AED35990
ID AED35990 standard; RNA; 83 BP.
XX
AC AED35990;
XX
DT 15-DEC-2005 (first entry)
XX
DE Human micro RNA miR-15a precursor.
XX
KM RNA interference; RNA purification; RNA amplification; gene silencing;
KW RNA detection; micro RNA; miRNA; miR-15a; ss.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT stem_loop 1..83
FT /*tag= a
FT misc_RNA 14..35
FT /*tag= b
FT /note= "Corresponds to mature miRNA"
XX
PN W02005098029-A2.
XX
PD 20-OCT-2005.
XX
PE 07-APR-2005; 2005WO-DK000239.
XX
PR 07-APR-2004; 2004DK-00000578.
PR 23-JUL-2004; 2004DK-00001146.
PR 11-AUG-2004; 2004DK-00001218.
PR 15-OCT-2004; 2004DK-00001587.
PR 28-JAN-2005; 2005DK-00000140.
XX
PA (EXIQ-) EXIQON AS.
XX
PI Jacobsen N, Kongsbak L, Kauppinen S, Echwald SM, Mouritzen P;
PI Nielsen PS, Norholm M;
XX
DR WPI; 2005-714540/73.
XX
PT Isolating, purifying, amplifying, detecting, identifying, quantifying or
PT capturing non-coding RNAs such as micro RNA or small interfering RNA
PT (siRNA), involves using oligonucleotide containing nucleoside analogs.
XX
PS Disclosure; Fig 29; 180pp; English.
XX
XX The present invention relates to the use of an oligonucleotide for the
CC isolation, purification, amplification, detection, identification,
CC quantification or capture of microRNA (miRNA) or small interfering RNA
CC (siRNA), where the oligonucleotide contains a number of nucleoside
CC analogs. The method uses 2 anchored tagging probes, each designed in
CC combination to detect a complementary target sequence, e.g. a short RNA
CC sequence, where the first tagging probe hybridizes to a first region
CC within a target sequence and the second tagging probe hybridizes to a
CC second region within the same complementary target sequence, e.g. a short
CC RNA target sequence that is adjacent to the first region. In a preferred
CC mode, one of the tagging probes is 5' phosphorylated to enable covalent
CC coupling of the 2 contiguous tagging probes hybridized to the
CC complementary target sequence by a ligase to form a single
CC oligonucleotide sequence. The method takes advantage of substitution of
```

```
CC the recognition sequences with high-affinity nucleotide analogs, e.g.
CC locked nucleic acid (LNA), for sensitive and specific hybridization to
CC short target sequences, e.g. miRNAs or siRNAs. The ligation reaction is
CC followed by real-time quantitative PCR (qPCR) of the target sequence,
CC e.g. ribonucleic acid-templated, covalently joined oligonucleotide
CC molecules using anchor sequences attached to the tagging probes as
CC priming sites for the PCR primers and a short detection probe with
CC sufficient duplex stability to allow binding to the amplicon, and
CC employing any of a variety of detection principles used in homogeneous
CC assays. In the preferred mode, the detection probe is substituted with
CC duplex-stabilizing, high-affinity nucleotide analogs, e.g. LNA, and
CC preferably oxy-LNA, to allow the use of short detection probes in the
CC real-time qPCR. The method is useful for detecting and quantifying
CC individual small RNA molecules in complex mixtures of different nucleic
CC acids, and for detecting, testing, diagnosing or quantifying miRNAs,
CC siRNAs, other non-coding RNAs, RNA-edited transcripts or alternative mRNA
CC splice variants implicated in, or connected to, human disease in complex
CC nucleic acid samples, e.g. from cancer patients. The present sequence is
CC that of human miRNA Hsa miR-15a precursor. miR-15a AED35991 was used as
CC the target in examples from the invention.
XX
SQ Sequence 83 BP; 26 A; 13 C; 22 G; 0 T; 22 U; 0 Other;
XX
Query Match 100.0%; Score 83; DB 14; Length 83;
Best Local Similarity 100.0%; Pred. No. 2.1e-20;
Matches 83; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 CCUGGAGUAAAGAGCAGCAUAUGGUTUGGAAUUGAAAGGUGCAGGCCAUU 60
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Db 1 CCUGGAGUAAAGAGCAGCAUAUGGUTUGGAAUUGAAAGGUGCAGGCCAUU 60
    |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
OY 61 UGUGCUGCCUCAAUAUACAAG 83
    :||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 61 UGUGCUGCCUCAAUAUACAAG 83
    :||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||

RESULT 4
AEE26703
ID AEE26703 standard; RNA; 83 BP.
XX
AC AEE26703;
XX
DT 09-FEB-2006 (first entry)
XX
DE Hsa miR-15a precursor sequence, SEQ ID 72.
XX
KM RNA amplification; RNA detection; RNA purification; miRNA; microRNA; ss.
XX
OS Synthetic.
XX
FH Key Location/Qualifiers
FT misc_binding 1..5
FT /*tag= a
FT /bound_moiety= "Nucleotides 83..79 of the present
FT sequence"
FT 13
FT /*tag= b
FT /bound_moiety= "Nucleotide 71 of the present sequence"
FT 16..23
FT /*tag= c
FT /bound_moiety= "Nucleotides 68..61 of the present
FT sequence"
FT 26..35
FT /*tag= d
FT /bound_moiety= "Nucleotides 58..49 of the present
FT sequence"
FT 38..39
FT /*tag= e
FT /bound_moiety= "Nucleotides 46..45 of the present
FT sequence"
FT 45..46
FT /*tag= f
FT /bound_moiety= "Nucleotides 39..38 of the present
FT sequence"
```

```
FT misc_binding sequence"
FT /tag= 49. .58
FT /bound_molecy= 9
FT /bound_molecy= "Nucleotides 35. .26 of the present
FT sequence"
FT /tag= h
FT /bound_molecy= "Nucleotides 23. .16 of the present
FT sequence"
FT /tag= 71
FT /bound_molecy= 1
FT /bound_molecy= "Nucleotide 13 of the present sequence"
FT /tag= 79. .83
FT /tag= j
FT /bound_molecy= "Nucleotides 5. .1 of the present sequence"
XX
XX US2005272075-A1.
XX
XX 08-DEC-2005.
XX
XX 07-APR-2005; 2005US-00100897.
XX
XX 07-APR-2004; 2004US-0560148P.
XX 23-JUL-2004; 2004US-0590856P.
XX 12-AUG-2004; 2004US-0600961P.
XX 15-OCT-2004; 2004US-0619291P.
XX 28-JAN-2005; 2005US-0648221P.
XX
XX (JACO/) JACOBSEN N.
XX (KONG/) KONGSBAK L.
XX (KAUP/) KAUPPINEN S.
XX (ECHW/) ECHWALD S M.
XX (MOUR/) MOURITZEN P.
XX (NIEL/) NIELSEN P S.
XX (NORH/) NORHOLM M.
XX
XX Jacobson N, Kongsbak L, Kauppinen S, Echwald SM, Mouritzen P,
XX Nielsen PS, Norholm M;
XX
XX WPI; 2006-037202/04.
XX
XX Isolating, purifying, amplifying, detecting identifying, quantifying, or
XX capturing non-coding RNAs, such as microRNA or small interfering RNA
XX (siRNA) by using an oligonucleotide containing a number of nucleoside
XX analogues.
XX
XX Disclosure: SEQ ID NO 72; 113bp; English.
XX
XX PS The present invention relates to novel methods for quantifying non-coding
XX CC RNAs, such as microRNA or short interfering RNA (siRNA). The methods
XX CC comprises using an oligonucleotide containing a number of nucleoside
XX CC analogues e.g lna analogues. The methods are useful for detecting and
XX CC quantifying individual small RNA molecules in complex mixtures composed
XX CC or hundreds of thousands of different nucleic acids. The present sequence
XX CC was used to illustrate the invention.
XX
XX SQ Sequence 83 BP; 26 A; 13 C; 22 G; 0 T; 22 U; 0 Other;
XX
XX Query Match 100.0%; Score 83; DB 15; Length 83;
XX Best Local Similarity 100.0%; Pred. No. 2.1e-20;
XX Matches 83; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 CCUUGAGUAAAGUAGACACAUAAUGUUGUGAUAUUGAAAGGUGGAGCCCAU 60
DB 1 CCUUGAGUAAAGUAGACACAUAAUGUUGUGAUAUUGAAAGGUGGAGCCCAU 60
OY 61 UGUGGUGCCUCAAUAAUACAAG 83
DB 61 UGUGGUGCCUCAAUAAUACAAG 83
XX
XX RESULT 5
XX AEE99350
```

```
ID AEE99350 standard; RNA; 83 BP.
XX
XX AC AEE99350;
XX
XX DT 23-FEB-2006 (first entry)
XX
XX DE Human miRNA sequence, hsa-mir-15a.
XX
XX KW RNA detection; microarray; diagnosis; genetic marker; drug screening; ss.
XX
XX OS Homo sapiens.
XX
XX PN WO2005118806-A2.
XX
XX PD 15-DEC-2005.
XX
XX PF 31-MAY-2005; 2005MO-US018826.
XX
XX PR 28-MAY-2004; 2004US-0575743P.
XX PR 03-FEB-2005; 2005US-0649584P.
XX
XX PA (AMBI-) AMBION INC.
XX
XX PI Brown D, Conrad R, Devroe E, Goldrick M, Keiger K, Labourier E;
XX PI Moon I, Powers P, Shelton J, Shingara J;
XX
XX WPI; 2006-047544/05.
XX
XX PT Multi-labeling miRNA in a sample, by forming a reaction mixture for
XX PT enzyme catalysis, where tailed miRNA molecules are produced, and
XX PT attaching a label to the tailed miRNA molecules.
XX
XX PS Disclosure; SEQ ID NO 22; 307bp; English.
XX
XX CC The new invention relates to manipulation of miRNA and their use in
XX CC characterizing their role and function in cells. Described is a method of
XX CC multi-labeling miRNA in a sample by forming a reaction mixture for enzyme
XX CC catalysis, comprising the miRNA with an enzyme that catalyzes the
XX CC addition of di- or tri-phosphate nucleotides, and one or more labeled or
XX CC unlabeled nucleotides, where tailed miRNA molecules are produced; and
XX CC attaching a label to the tailed miRNA molecules. Specifically, the method
XX CC comprises enriching miRNA in the sample; forming a reaction mixture,
XX CC under conditions that allows enzyme catalysis, where tailed miRNA
XX CC molecules are produced; and if unlabeled nucleotides are added to the
XX CC miRNA, attaching a label to the tailed miRNA molecules. Also given
XX CC include a miRNA array comprising one or more miRNA probes immobilized on
XX CC a solid support, where the probes comprise an miRNA coding sequence, and
XX CC an amine attached to the 5' or 3' end of the probe; evaluating miRNA in a
XX CC sample; identifying a correlation between miRNA expression and a disease
XX CC or condition; analyzing miRNA in a sample; identifying a candidate
XX CC diagnostic marker or therapeutic target of a disease or condition;
XX CC determining a difference between two or more biological samples;
XX CC screening for a candidate therapeutic agent for a disease or condition;
XX CC and a kit for preparing miRNA for multi-labeling. The methods and
XX CC compositions are useful for isolating, enriching, and/or labeling miRNA
XX CC molecule samples. The present sequence is a human miRNA sequence, used in
XX CC the new methods of the invention.
XX
XX SQ Sequence 83 BP; 26 A; 13 C; 22 G; 0 T; 22 U; 0 Other;
XX
XX Query Match 100.0%; Score 83; DB 15; Length 83;
XX Best Local Similarity 100.0%; Pred. No. 2.1e-20;
XX Matches 83; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 CCUUGAGUAAAGUAGACACAUAAUGUUGUGAUAUUGAAAGGUGGAGCCCAU 60
DB 1 CCUUGAGUAAAGUAGACACAUAAUGUUGUGAUAUUGAAAGGUGGAGCCCAU 60
OY 61 UGUGGUGCCUCAAUAAUACAAG 83
DB 61 UGUGGUGCCUCAAUAAUACAAG 83
```

RESULT 6  
ADK03808  
ID ADK03808 standard; DNA; 310 BP.  
XX  
AC ADK03808;  
XX  
DT 05-MAY-2005 (first entry)  
XX  
DE Human genomic DNA encoding pri-miRNA miR-15a.  
XX  
KW MicroRNA; ds; RNA interference; gene silencing; Cytostatic; Antidiabetic;  
KW Anorectic; Antilipemic; Antiarteriosclerotic; Hypotensive;  
KW Neuroprotective; Nootropic; Antiangiogenic; Anabolic;  
KW Eating-Disorders-Gen.; hyperproliferation; cancer; neoplasm;  
KW angiogenesis disorder; cardiovascular disease;  
KW non-insulin dependent diabetes; endocrine disease;  
KW gastrointestinal disease; metabolic disorder; obesity;  
KW nutritional disorder; hyperlipidemia; atherosclerosis; atherogenesis;  
KW hyperemesis; anorexia nervosa; nutritional disorder;  
KW psychiatric disorder; Alzheimer's disease; degeneration;  
KW neurological disease; nervous system injury; neurodegenerative disease;  
KW neurological disorder.  
XX  
OS Homo sapiens.  
XX  
PN W02005013901-A2.  
XX  
PD 17-FEB-2005.  
XX  
PF 30-JUL-2004; 2004WO-US025300.  
XX  
PR 31-JUL-2003; 2003US-0492056P.  
XX  
PR 31-OCT-2003; 2003US-0516303P.  
XX  
PR 19-DEC-2003; 2003US-0531596P.  
XX  
PR 14-APR-2004; 2004US-0562417P.  
XX  
PA (ISIS-) ISIS PHARM INC.  
XX  
PI Esau C, Lollo B, Bennett CF, Freiler SM, Griffey RH, Baker BF;  
PI Vickers T, Marcusson EG, Koller E, Swayze EE, Jain R, Bhat B;  
PI Peralta E;  
XX  
DR WPI; 2005-163123/17.  
XX  
PT New oligomeric compound that can hybridize with or sterically interfere  
PT with nucleic acid molecules comprising or encoding small non-coding RNA  
PT targets, useful for treating e.g., cancer and diabetes.  
XX  
PS Example 28; SEQ ID NO 906; 854bp; English.  
XX  
CC The invention relates to an oligomeric compound comprising a first region  
CC and a second region, where at least one region contains a modification,  
CC and a portion of the oligomeric compound is targeted to a small non-  
CC coding RNA target nucleic acid that is miRNA (micro-RNA), or its  
CC precursor (primary-miRNA, pri-miRNA). Also included are a composition  
CC comprising a first oligomeric compound and a second oligomeric compound  
CC (where at least one of the oligomeric compounds contains a modification,  
CC at least a portion of the first oligomeric compound is capable of  
CC hybridizing with at least a portion of the second oligomeric compound,  
CC and at least a portion of the first oligomeric compound is targeted to a  
CC small non-coding RNA target nucleic acid), a pharmaceutical composition  
CC comprising the composition cited above (and a carrier), a kit or assay  
CC device comprising the composition, modulating the expression of a small  
CC non-coding RNA target nucleic acid in a cell (or tissue or animal),  
CC treating or preventing a disease or disorder associated with a small non-  
CC coding RNA target nucleic acid, treating a condition in an animal,  
CC treating or preventing a disease or disorder associated with CD36,  
CC methods of screening an oligomeric compound for an effect on miRNA  
CC signaling, methods of screening a miRNA precursor for an effect in miRNA  
CC signaling, methods of modulating translation (or apoptosis, conversion of  
CC a precursor miRNA into miRNA, or cellular differentiation), identifying  
CC an RNA transcript bound to a small non-coding RNA, arresting (or  
CC delaying) entry of a cell at the G2/M phase, interfering with chromosome

CC segregation, a method of triggering apoptosis, detecting a miRNA  
CC precursor, identifying a miRNA target, modulating cellular  
CC differentiation, treating a condition associated with adipocyte  
CC differentiation in an animal, treating/preventing a disease/disorder  
CC associated with aberrant regulation of the cell cycle by miRNAs,  
CC maintaining a pluripotent stem cell and identifying a small non-coding  
CC RNA binding site. The oligomeric compound is targeted to a region  
CC flanking a Drosna cleavage site within a pri-miRNA. It stimulates an  
CC increase in expression of a pri-miRNA. The compounds and compositions are  
CC useful for treating a disease or disorder resulting from chromosomal non-  
CC disjunction, altered methylation, acetylation, or pseudouridylation state  
CC of chromosomes, such as a hyperproliferative condition (e.g. cancer,  
CC neoplasia or angiogenesis), diabetes (type 2 diabetes), obesity,  
CC hyperlipidemia, atherosclerosis, atherogenesis, hypertension, anorexia,  
CC Alzheimer's disease, a central nervous system injury or neurodegenerative  
CC disorder. The present sequence is a DNA encoding a primary miRNA of the  
CC invention.  
XX  
SQ Sequence 310 BP, 104 A, 41 C, 53 G, 112 T, 0 U, 0 Other;  
XX  
Query Match 100.0%; Score 83; DB 14; Length 310;  
Best Local Similarity 73.5%; Pred. No. 3.2e-20;  
Matches 61; Conservative 22; Mismatches 0; Indels 0; Gaps 0;  
OY 1 CCTUGAGGUAAGUAGCAGCAUAUAGCUGUUGGUAUUGAAAGUCAGGCCUAU 60  
DB 131 CCTTGAGGTAAAGAGCAGCAUATGCTTGTGGATTGTGAAGGTGACGCCATAT 190  
OY 61 UGUGCUGCCUCAAATAUACAGG 83  
DB 191 TGTGCTGCTCTCAAAATACAGG 213  
XX  
RESULT 7  
AAK72317  
ID AAK72317 standard; DNA; 4214 BP.  
XX  
AC AAK72317;  
XX  
DT 06-NOV-2001 (first entry)  
XX  
DE Human immune/haematopoietic antigen genomic sequence SEQ ID NO:27129.  
XX  
KW Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;  
KW cytosstatic; gene therapy; vaccine; metastasis; ds.  
XX  
OS Homo sapiens.  
XX  
PN W0200157182-A2.  
XX  
PD 09-AUG-2001.  
XX  
PF 17-JAN-2001; 2001WO-US001354.  
XX  
PR 31-JAN-2000; 2000US-0179065P.  
XX  
PR 04-FEB-2000; 2000US-0180628P.  
XX  
PR 24-FEB-2000; 2000US-0184664P.  
XX  
PR 02-MAR-2000; 2000US-0186350P.  
XX  
PR 16-MAR-2000; 2000US-0189874P.  
XX  
PR 17-MAR-2000; 2000US-0190076P.  
XX  
PR 18-APR-2000; 2000US-0198173P.  
XX  
PR 19-MAY-2000; 2000US-0205515P.  
XX  
PR 07-JUN-2000; 2000US-0209467P.  
XX  
PR 28-JUN-2000; 2000US-0214886P.  
XX  
PR 30-JUN-2000; 2000US-0215135P.  
XX  
PR 07-JUL-2000; 2000US-0216647P.  
XX  
PR 17-JUL-2000; 2000US-0216880P.  
XX  
PR 11-JUL-2000; 2000US-0217487P.  
XX  
PR 14-JUL-2000; 2000US-0218290P.  
XX  
PR 26-JUL-2000; 2000US-0220963P.  
XX  
PR 14-AUG-2000; 2000US-0224518P.

PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225213P.  
PR 14-AUG-2000; 2000US-0225214P.  
PR 14-AUG-2000; 2000US-0225216P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225268P.  
PR 14-AUG-2000; 2000US-0225270P.  
PR 14-AUG-2000; 2000US-0225447P.  
PR 14-AUG-2000; 2000US-0225757P.  
PR 14-AUG-2000; 2000US-0225758P.  
PR 14-AUG-2000; 2000US-0225759P.  
PR 14-AUG-2000; 2000US-0226279P.  
PR 14-AUG-2000; 2000US-0226681P.  
PR 22-AUG-2000; 2000US-0226868P.  
PR 22-AUG-2000; 2000US-0227182P.  
PR 23-AUG-2000; 2000US-0227009P.  
PR 30-AUG-2000; 2000US-0228924P.  
PR 01-SEP-2000; 2000US-0229287P.  
PR 01-SEP-2000; 2000US-0229343P.  
PR 01-SEP-2000; 2000US-0229344P.  
PR 01-SEP-2000; 2000US-0229345P.  
PR 05-SEP-2000; 2000US-0229509P.  
PR 05-SEP-2000; 2000US-0229513P.  
PR 06-SEP-2000; 2000US-0230437P.  
PR 06-SEP-2000; 2000US-0230438P.  
PR 08-SEP-2000; 2000US-0231242P.  
PR 08-SEP-2000; 2000US-0231243P.  
PR 08-SEP-2000; 2000US-0231244P.  
PR 08-SEP-2000; 2000US-0231413P.  
PR 08-SEP-2000; 2000US-0231414P.  
PR 08-SEP-2000; 2000US-0232080P.  
PR 08-SEP-2000; 2000US-0232081P.  
PR 12-SEP-2000; 2000US-0231968P.  
PR 14-SEP-2000; 2000US-0232397P.  
PR 14-SEP-2000; 2000US-0232398P.  
PR 14-SEP-2000; 2000US-0232399P.  
PR 14-SEP-2000; 2000US-0232400P.  
PR 14-SEP-2000; 2000US-0232401P.  
PR 14-SEP-2000; 2000US-0233063P.  
PR 14-SEP-2000; 2000US-0233064P.  
PR 14-SEP-2000; 2000US-0233065P.  
PR 21-SEP-2000; 2000US-0234223P.  
PR 21-SEP-2000; 2000US-0234227P.  
PR 25-SEP-2000; 2000US-0234997P.  
PR 25-SEP-2000; 2000US-0234998P.  
PR 26-SEP-2000; 2000US-0234984P.  
PR 27-SEP-2000; 2000US-0235834P.  
PR 27-SEP-2000; 2000US-0235835P.  
PR 29-SEP-2000; 2000US-0236327P.  
PR 29-SEP-2000; 2000US-0236367P.  
PR 29-SEP-2000; 2000US-0236368P.  
PR 29-SEP-2000; 2000US-0236369P.  
PR 29-SEP-2000; 2000US-0236370P.  
PR 02-OCT-2000; 2000US-0236802P.  
PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237038P.  
PR 02-OCT-2000; 2000US-0237039P.  
PR 02-OCT-2000; 2000US-0237040P.  
PR 13-OCT-2000; 2000US-0239935P.  
PR 13-OCT-2000; 2000US-0239937P.  
PR 20-OCT-2000; 2000US-0240960P.  
PR 20-OCT-2000; 2000US-0241221P.  
PR 20-OCT-2000; 2000US-0241785P.  
PR 20-OCT-2000; 2000US-0241786P.  
PR 20-OCT-2000; 2000US-0241787P.  
PR 20-OCT-2000; 2000US-0241808P.  
PR 20-OCT-2000; 2000US-0241809P.  
PR 20-OCT-2000; 2000US-0241825P.  
PR 01-NOV-2000; 2000US-0244617P.  
PR 01-NOV-2000; 2000US-0244674P.  
PR 08-NOV-2000; 2000US-0246475P.  
PR 08-NOV-2000; 2000US-0246476P.  
PR 08-NOV-2000; 2000US-0246477P.

PR 08-NOV-2000; 2000US-0246478P.  
PR 08-NOV-2000; 2000US-0246523P.  
PR 08-NOV-2000; 2000US-0246524P.  
PR 08-NOV-2000; 2000US-0246525P.  
PR 08-NOV-2000; 2000US-0246526P.  
PR 08-NOV-2000; 2000US-0246527P.  
PR 08-NOV-2000; 2000US-0246528P.  
PR 08-NOV-2000; 2000US-0246532P.  
PR 08-NOV-2000; 2000US-0246609P.  
PR 08-NOV-2000; 2000US-0246610P.  
PR 08-NOV-2000; 2000US-0246611P.  
PR 08-NOV-2000; 2000US-0246613P.  
PR 17-NOV-2000; 2000US-0249207P.  
PR 17-NOV-2000; 2000US-0249208P.  
PR 17-NOV-2000; 2000US-0249209P.  
PR 17-NOV-2000; 2000US-0249210P.  
PR 17-NOV-2000; 2000US-0249211P.  
PR 17-NOV-2000; 2000US-0249212P.  
PR 17-NOV-2000; 2000US-0249213P.  
PR 17-NOV-2000; 2000US-0249214P.  
PR 17-NOV-2000; 2000US-0249215P.  
PR 17-NOV-2000; 2000US-0249216P.  
PR 17-NOV-2000; 2000US-0249217P.  
PR 17-NOV-2000; 2000US-0249218P.  
PR 17-NOV-2000; 2000US-0249244P.  
PR 17-NOV-2000; 2000US-0249245P.  
PR 17-NOV-2000; 2000US-0249246P.  
PR 17-NOV-2000; 2000US-0249247P.  
PR 17-NOV-2000; 2000US-0249249P.  
PR 17-NOV-2000; 2000US-0249300P.  
PR 01-DEC-2000; 2000US-0250160P.  
PR 01-DEC-2000; 2000US-0250391P.  
PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251988P.  
PR 05-DEC-2000; 2000US-0256719P.  
PR 06-DEC-2000; 2000US-0251479P.  
PR 08-DEC-2000; 2000US-0251866P.  
PR 08-DEC-2000; 2000US-0251868P.  
PR 08-DEC-2000; 2000US-0251869P.  
PR 08-DEC-2000; 2000US-0251989P.  
PR 08-DEC-2000; 2000US-0251990P.  
PR 11-DEC-2000; 2000US-0254097P.  
PR 05-JAN-2001; 2001US-0259678P.  
  
PA (HUMA-) HUMAN GENOME SCI INC.  
XX  
PI Rosen CA, Barash SC, Ruben SM;  
XX WPI; 2001-483426/52.  
DR  
XX  
PT Nucleic acids encoding human immune/hematopoietic antigen polypeptides,  
XX useful for preventing, diagnosing and/or treating cancers and metastasis.  
XX  
PS Disclosure; SEQ ID NO 27129; 3071pp + Sequence Listing; English.  
XX  
XX AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)  
CC amino acid sequences given in AAM82170 to AAM91921. (I) have cytosolic  
CC activity, and can be used in gene therapy and vaccine production. (I)  
CC proteins and polynucleotides may be used in the prevention, diagnosis and  
CC treatment of diseases associated with inappropriate (I) expression. For  
CC example, they may be used to treat disorders associated with decreased  
CC expression by rectifying mutations or deletions in a patient's genome  
CC that affect the activity of (I) by expressing inactive proteins or to  
CC supplement the patients own production of (I). Additionally, (I)  
CC polynucleotides may be used to produce the secreted (I), by inserting the  
CC nucleic acids into a host cell and culturing the cell to express the  
CC protein. (I) proteins and polynucleotides may be used to prevent,  
CC diagnose and treat immune/haematopoietic-related diseases, especially  
CC cancers and cancer metastases of haematopoietic-derived cells. AAK64703  
CC to AAK87694 represent human immune/haematopoietic antigen genomic  
CC sequences from the present invention. AAK54942 to AAK54950 and AAM82169  
CC represent sequences used in the exemplification of the present invention

XX	Sequence	4214 BP; 1348 A; 658 C; 794 G; 1374 T; 0 U; 0 Other;
XX	Query Match	100.0%; Score 83; DB 4; Length 4214;
XX	Best Local Similarity	73.5%; Pred. No. 7,8e-20;
XX	Matches	61; Conservative 22; Mismatches 0; Indels 0; Gaps 0
QY	1 CCUGGAGUAAAGUACGACGACACUAAUGUUUGUGAUAUUUUUGAAAAGUGCGACGCCUUAU 60	
DB	2816 CCTTGAAGGTAAAGTATACGACGACATATATGTTGTGATTTTGAAGAGGTGACGGCCATAT 287	
QY	61 UGUGCGUGCCUCAAAGUACAGG 83	
DB	2876 TGTGCTGCTCAAAAATACAGG 2898	
RESULT 8		
ADXX03045		
ID	ADXX03045 standard; RNA; 110 BP.	
XX		
AC	ADXX03045;	
DT	05-MAY-2005 (first entry)	
XX		
DE	Human primary microRNA (pri-miRNA) mir-15a-1.	
XX		
KW	MicroRNA; db; RNA interference; gene silencing; Cytostatic; Antidiabetic;	
KW	Anorectic; Antilipemic; Antiarteriosclerotic; Hypotensive;	
KW	Neuroprotective; Nootropic; Antiangiogenic; Anabolic;	
KW	Bleeding-disorders-gen.; hyperproliferation; cancer; neoplasia;	
KW	angiogenesis disorder; cardiovascular disease;	
KW	non-insulin dependent diabetes; endocrine disease;	
KW	gastrointestinal disease; metabolic disorder; obesity;	
KW	nutritional disorder; hyperlipidemia; atherosclerosis; atherogenesis;	
KW	hypertension; anorexia nervosa; nutritional disorder;	
KW	psychiatric disorder; Alzheimer's disease; degeneration;	
KW	neurological disease; nervous system injury; neurodegenerative disease;	
KW	neurological disorder.	
XX		
OS	Homo sapiens.	
PN	NO2005013901-A2.	
XX		
PD	17-FEB-2005.	
XX		
PF	30-JUL-2004; 2004MO-US025300.	
XX		
PR	31-JUL-2003; 2003US-0492056P.	
PR	31-OCT-2003; 2003US-0516303P.	
PR	19-DEC-2003; 2003US-0531596P.	
PR	14-APR-2004; 2004US-0562417P.	
XX		
PA	(ISIS-) ISIS PHARM INC.	
XX		
PI	Eban C, Lollo B, Bennett CF, Freier SM, Griffey RH, Baker BF,	
PI	Vickers T, Marcuseon EG, Koller E, Swayze EE, Jain R, Bhat B;	
PI	Peralta E;	
XX		
DR	WPI; 2005-163123/17.	
XX		
PT	New oligomeric compound that can hybridize with or sterically interfere	
PT	with nucleic acid molecules comprising or encoding small non-coding RNA	
PT	targets, useful for treating e.g., cancer and diabetes.	
XX		
PS		
PS	Example 3; SEQ ID NO 128; 854pp; English.	
XX		
CC	The invention relates to an oligomeric compound comprising a first region	
CC	and a second region, where at least one region contains a modification,	
CC	and a portion of the oligomeric compound is targeted to a small non-	
CC	-coding RNA target nucleic acid that is miRNA (micro-RNA), or its	
CC	precursor (primary-miRNA, pri-miRNA). Also included are a composition	
CC	comprising a first oligomeric compound and a second oligomeric compound	
CC	(where at least one of the oligomeric compounds contains a modification,	

CC	at least a portion of the first oligomeric compound is capable of
CC	hybridizing with at least a portion of the second oligomeric compound,
CC	and at least a portion of the first oligomeric compound is targeted to a
CC	small non-coding RNA target nucleic acid), a pharmaceutical composition
CC	comprising the composition cited above (and a carrier), a kit or assay
CC	device comprising the composition, modulating the expression of a small
CC	non-coding RNA target nucleic acid in a cell (or tissue or animal),
CC	treating or preventing a disease or disorder associated with a small non-
CC	coding RNA target nucleic acid, treating a condition in an animal,
CC	treating or preventing a disease or disorder associated with CD36,
CC	methods of screening an oligomeric compound for an effect on mRNA
CC	signaling, methods of screening a miRNA precursor for an effect in mRNA
CC	a precursor miRNA bound to a small non-coding RNA, arresting (or
CC	delaying) entry of a cell at the G2/M phase, interfering with chromosome
CC	segregation, a method of triggering apoptosis, detecting a miRNA
CC	precursor, identifying a miRNA target, modulating cellular
CC	differentiation, treating a condition associated with adipocyte
CC	differentiation in an animal, treating/preventing a disease/disorder
CC	associated with aberrant regulation of the cell cycle by miRNAs,
CC	maintaining a pluripotent stem cell and identifying a small non-coding
CC	RNA binding site. The oligomeric compound is targeted to a region
CC	flanking a Drosha cleavage site within a pri-miRNA. It stimulates an
CC	increase in expression of a pri-miRNA. The compounds and compositions are
CC	useful for treating a disease or disorder resulting from chromosomal non-
CC	disjunction, altered methylation, acetylation, or pseudouridylation state
CC	of chromosomes, such as a hyperproliferative condition (e.g. cancer,
CC	neoplasia or angiogenesis), diabetes (Type 2 diabetes), obesity,
CC	hyperlipidemia, atherosclerosis, arterogenesis, hypertension, anorexia,
CC	Alzheimer's disease, a central nervous system injury or neurodegenerative
CC	disorder. The present sequence is a primary miRNA of the invention.
XX	
SQ	Sequence 110 BP; 40 A; 15 C; 26 G; 0 T; 29 U; 0 Other;
	Query Match            98.8%; Score 82; DB 14; Length 110;
	Best Local Similarity   100.0%; Pred. No. 5.3e-20;
	Matches     82; Conservative     0; Mismatches     0; Indels         0; Gaps         0
OY	1 CCUGAGAAAGUUGACGACACAUUAGUUUGAUAAGUCGACGCCAUU 60
Db	29 CCUGAGAAAGUUGACGACACAUUAGUUUGAUAAGUCGACGCCAUU 88
OY	61 UUGUCUGCCUCAAAAUAACAAG 82
Db	89 UUGUCUGCCUCAAAAUAACAAG 110
RESULT 9	
ID	ADX03080
ID	ADX03080 standard; RNA; 110 BP.
XX	
AC	ADX03080;
XX	
DT	05-MAY-2005 (first entry)
DE	
DE	Human primary microRNA (pri-miRNA) mir-15a-2.
XX	
KM	MICRORNA, de; RNA inference; gene silencing; cytostatic; Antidiabetic;
KM	Anorectic; Anti-lipemic; Antiarteriosclerotic; Hypotensive;
KM	Neuroprotective; Nootropic; Antiangiogenic; Anabolic;
KM	Angiogenesis disorders-gen.; hyperproliferation; cancer; neoplasm;
KM	Endogenous disorders; cardiovascular disease;
KM	non-insulin dependent diabetes; endocrine disease;
KM	gastrointestinal disease; metabolic disorder; obesity;
KM	nutritional disorder; hyperlipidemia; atherosclerosis; arterogenesis;
KM	hypertension; anorexia nervosa; nutritional disorder;
KM	psychiatric disorder; Alzheimers disease; degeneration;
KM	neurological disease; nervous system injury; neurodegenerative disease;
XX	
XX	Homo sapiens.
XS	
XX	

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PN WO2005013901-A2.
XX
XX 17-FEB-2005.
XX
XX 30-JUL-2004; 2004WO-US025300.
XX
XX 31-JUL-2003; 2003US-0492056P.
XX 31-OCT-2003; 2003US-0516303P.
XX 19-DEC-2003; 2003US-0531596P.
XX 14-APR-2004; 2004US-0562417P.
XX
XX (ISIS-) ISIS PHARM INC.
XX
XX Esau C, Lollo B, Bennett CF, Freier SM, Griffey RH, Baker BF,
XX Vickers T, Marcusson EG, Koller E, Swayze EE, Jain R, Bhat B;
XX Peralta E;
XX
XX WPI; 2005-163123/17.
XX
XX New oligomeric compound that can hybridize with or sterically interfere
XX with nucleic acid molecules comprising or encoding small non-coding RNA
XX targets, useful for treating e.g., cancer and diabetes.
XX
XX Example 3; SEQ ID NO 165; 854pp; English.
XX
XX The invention relates to an oligomeric compound comprising a first region
XX and a second region, where at least one region contains a modification,
XX and a portion of the oligomeric compound is targeted to a small non-
XX coding RNA target nucleic acid that is miRNA (micro-RNA), or its
XX precursor (primary-miRNA, pri-miRNA). Also included are a composition
XX comprising a first oligomeric compound and a second oligomeric compound
XX (where at least one of the oligomeric compounds contains a modification,
XX at least a portion of the first oligomeric compound is capable of
XX hybridizing with at least a portion of the second oligomeric compound,
XX and at least a portion of the first oligomeric compound is targeted to a
XX small non-coding RNA target nucleic acid), a pharmaceutical composition
XX comprising the composition cited above (and a carrier), a kit or assay
XX device comprising the composition, modulating the expression of a small
XX non-coding RNA target nucleic acid in a cell (or tissue or animal),
XX treating or preventing a disease or disorder associated with a small non-
XX coding RNA target nucleic acid, treating a condition in an animal,
XX treating or preventing a disease or disorder associated with C936,
XX methods of screening an oligomeric compound for an effect on miRNA
XX signaling, methods of screening a miRNA precursor for an effect in miRNA
XX signaling, methods of modulating translation (or apoptosis, conversion of
XX a precursor miRNA into miRNA, or cellular differentiation), identifying
XX an RNA transcript bound to a small non-coding RNA, arresting (or
XX delaying) entry of a cell at the G2/M phase, interfering with chromosome
XX segregation, a method of triggering apoptosis, detecting a miRNA
XX precursor, identifying a miRNA target, modulating cellular
XX differentiation, treating a condition associated with adipocyte
XX differentiation in an animal, treating/preventing a disease/disorder
XX associated with aberrant regulation of the cell cycle by miRNAs,
XX maintaining a pluripotent stem cell and identifying a small non-coding
XX RNA binding site. The oligomeric compound is targeted to a region
XX flanking a Droscha cleavage site within a pri-miRNA. It stimulates an
XX increase in expression of a pri-miRNA. The compounds and compositions are
XX useful for treating a disease or disorder resulting from chromosomal non-
XX distinction, altered methylation, acetylation, or pseudouridylation state
XX of chromosomes, such as a hyperproliferative condition (e.g. cancer,
XX neoplasia or angiogenesis), diabetes (Type 2 diabetes), obesity,
XX hyperlipidemia, atherosclerosis, atherogenesis, hypertension, anorexia,
XX Alzheimer's disease, a central nervous system injury or neurodegenerative
XX disorder. The present sequence is a primary miRNA of the invention.
XX
XX Sequence 110 BP, 39 A; 15 C; 27 G; 0 T; 29 U; 0 Other;
XX
XX Query Match 96.4%; Score 80; DB 14; Length 110;
XX Best Local Similarity 100.0%; Pred. No. 2.9e-19;
XX Matches 80; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

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DB 31 CCTUGAGUAAAGUAGACGACAUAAUGCUUUGGAAUUUUGAAAAAGUGCAGGCCAUU 90
QY 61 UGUGCUCGCUCAAAAUACA 80
DB 91 UGUGCUCGCUCAAAAUACA 110

RESULT 10
AEB92619 ID AEB92619 standard; DNA; 108 BP.
XX
XX AEB92619;
XX
XX 03-NOV-2005 (first entry)
XX
XX Human microRNA gene SEQ ID NO 32.
XX
XX cyrostatic; gene therapy; diagnosis; prognosis; pharmaceutical;
XX gene expression; musculoskeletal disease; hematological disease;
XX immunosuppressant; andrology; neurological disease; dermatological disease;
XX endocrine disease; gynecology and obstetrics; respiratory disease;
XX gastrointestinal disease; genitourinary disease; cancer; neoplasm;
XX microRNA; miR; ss; biochip.
XX
XX Homo sapiens.
XX
XX WO2005078139-A2.
XX
XX 25-AUG-2005.
XX
XX 09-FEB-2005; 2005NO-US004865.
XX
XX 09-FEB-2004; 2004US-0542929P.
XX 09-FEB-2004; 2004US-0542940P.
XX 09-FEB-2004; 2004US-0542963P.
XX 09-FEB-2004; 2004US-0543119P.
XX 18-JUN-2004; 2004US-0580797P.
XX 18-JUN-2004; 2004US-0580959P.
XX
XX (UUYE-) UNIV JEFFERSON THOMAS.
XX
XX Croce CM, Liu C, Calin GA;
XX
XX WPI; 2005-571622/58.
XX
XX Diagnosing a cancer-associated chromosomal feature, e.g. bladder cancer,
XX tumors, or myelodysplastic syndrome, comprises evaluating a miR gene in
XX the test sample.
XX
XX Example 1; SEQ ID NO 32; 170pp; English.
XX
XX The invention describes diagnosing whether a subject has, or is at risk
XX for developing, a cancer linked to a cancer-associated chromosomal
XX feature, comprises evaluating the status in the subject of at least one
XX microRNA (miR) gene located in close proximity to the cancer-associated
XX chromosomal feature. Also described are a pharmaceutical composition
XX comprising an isolated miR gene product or a nucleic acid encoding an
XX isolated miR gene product from an miR gene located in close proximity to
XX a cancer-associated chromosomal feature and is not miR15 or miR16, and a
XX pharmaceutical carrier, and a method of treating cancer associated with a
XX cancer-associated chromosomal feature in a subject. The miR, composition,
XX and method are useful for diagnosing and treating a cancer-associated
XX chromosomal feature, where the cancer is bladder cancer, esophageal
XX cancer, lung cancer, stomach cancer, kidney cancer, cervical cancer,
XX ovarian cancer, breast cancer, lymphoma, Ewing sarcoma, hematopoietic
XX tumors, solid tumors, gastric cancer, colorectal cancer, brain cancer,
XX epithelial cancer, nasopharyngeal cancer, uterine cancer, hepatic cancer,
XX head-and-neck cancer, renal cancer, male germ cell tumors, malignant
XX mesothelioma, myelodysplastic syndrome, pancreatic or biliary cancer,
XX prostate cancer, thyroid cancer, urothelial cancer, renal cancer, Wilms'
XX tumor, small cell lung cancer, melanoma, skin cancer, osteosarcoma,
XX neuroblastoma, leukemia (acute lymphocytic leukemia, acute myeloid
XX leukemia, chronic lymphocytic leukemia), glioblastoma multiforme,
```

CC medulloblastoma, lymphoplasmacytoid lymphoma, rhabdomyosarcoma, B-cell  
CC chronic lymphocytic leukemia, or B-cell chronic lymphocytic leukemia  
CC associated with an unmutated IgH gene, ZAP-70 expression, CD38  
CC expression, a deletion at chromosome 11q23, a loss or mutation of TP53 or  
CC their combination. This sequence represents a human microRNA (miRNA)  
CC gene.  
XX  
SQ Sequence 108 BP; 38 A; 15 C; 26 G; 29 T; 0 U; 0 Other;  
Query Match 95.2%; Score 79; DB 14; Length 108;  
Best Local Similarity 72.2%; Pred. No. 6.7e-19;  
Matches 57; Conservative 22; Mismatches 0; Indels 0; Gaps 0;  
QY 1 CCUGGAGUAAAGUAGCAGCACAUAUGUUGUGAUAUUUGAAAAGGUGCAGGCCCAU 60  
DB 30 CCTTGAGATAAAGTAGCAGCACAATATGTTTGAGATTGTAAGGAGGAGCCATAT 89  
QY 61 UGUGCUGCCUCAAUAUAC 79  
DB 90 TGTGCTGCTCAAAAATAC 108  
RESULT 11  
ID AEB9543 standard; RNA; 83 BP.  
XX AEB9543;  
AC AEB9543;  
XX 23-FEB-2006 (first entry)  
DT  
XX Mouse miRNA sequence, mmu-mir-15a.  
DE  
XX RNA detection; microarray; diagnosis; genetic marker; drug screening; ss.  
XX  
OS Mus musculus.  
XX WO2005118806-A2.  
PN  
XX 15-DEC-2005.  
PD  
XX 31-MAY-2005; 2005WO-US018826.  
PF  
XX 28-MAY-2004; 2004US-0575743P.  
PR 03-FEB-2005; 2005US-0649584P.  
XX  
XX (AMBI-) AMBION INC.  
PA  
XX Brown D, Conrad R, Devroe E, Goldrick M, Keiger K, Labourier E;  
PI Moon I, Powers P, Shelton J, Shingara J;  
XX WPI; 2006-047544/05.  
DR  
XX  
PT Multi-labeling miRNA in a sample, by forming a reaction mixture for  
PT enzyme catalysis, where tailed miRNA molecules are produced, and  
PT attaching a label to the tailed miRNA molecules.  
XX  
PS Disclosure; SEQ ID NO 215; 307bp; English.  
XX  
CC The new invention relates to manipulation of miRNA and their use in  
CC characterizing their role and function in cells. Described is a method of  
CC multi-labeling miRNA in a sample by forming a reaction mixture for enzyme  
CC catalysis, comprising the miRNA with an enzyme that catalyzes the  
CC addition of di- or tri-phosphate nucleotides, and one or more labeled or  
CC unlabeled nucleotides, where tailed miRNA molecules are produced; and  
CC attaching a label to the tailed miRNA molecules. Specifically, the method  
CC comprises enriching miRNA in the sample; forming a reaction mixture,  
CC under conditions that allows enzyme catalysis, where tailed miRNA  
CC molecules are produced; and if unlabeled nucleotides are added to the  
CC miRNA, attaching a label to the tailed miRNA molecules. Also given  
CC include a miRNA array comprising one or more miRNA probes immobilized on  
CC a solid support, where the probes comprise an miRNA coding sequence, and  
CC an amine attached to the 5' or 3' end of the probe; evaluating miRNA in a  
CC sample; identifying a correlation between miRNA expression and a disease

CC or condition; analyzing miRNA in a sample; identifying a candidate  
CC diagnostic marker or therapeutic target of a disease or condition;  
CC determining a difference between two or more biological samples;  
CC screening for a candidate therapeutic agent for a disease or condition;  
CC and a kit for preparing miRNA for multi-labeling. The methods and  
CC compositions are useful for isolating, enriching, and/or labeling miRNA  
CC molecule samples. The present sequence is a mouse miRNA sequence, used in  
CC the new methods of the invention.  
XX  
SQ Sequence 83 BP; 26 A; 15 C; 22 G; 0 T; 20 U; 0 Other;  
Query Match 82.7%; Score 68.6; DB 15; Length 83;  
Best Local Similarity 94.7%; Pred. No. 4.1e-15;  
Matches 71; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
QY 1 CCUGGAGUAAAGUAGCAGCACAUAUGUUGUGAUAUUUGAAAAGGUGCAGGCCCAU 60  
DB 1 CCUGGAGUAAAGUAGCAGCACAUAUGUUGUGAUAUUUGAAAAGGUGCAGGCCA 60  
QY 61 UGUGCUGCCUCAAUA 75  
DB 61 UGUGCUGCCUCAAUA 75  
RESULT 12  
ID ADX04205 standard; RNA; 70 BP.  
XX ADX04205  
AC ADX04205;  
XX 05-MAY-2005 (first entry)  
DT  
XX Mouse primary-microRNA (pri-miRNA) mir-15a.  
DE  
XX MicroRNA; ds; RNA interference; gene silencing; Cytostatic; Antidiabetic;  
KM Anorectic; Antilipemic; Antiartherosclerotic; Hypotensive;  
KM Neuroprotective; Nootropic; Antiangiogenic; Anabolic;  
KM Eating-Disorders-Gen.; hyperproliferation; cancer; neoplasm;  
KM angiogenesis disorder; cardiovascular disease;  
KM non-insulin dependent diabetes; endocrine disease;  
KM gastrointestinal disease; metabolic disorder; obesity;  
KM nutritional disorder; hyperlipidemia; atherosclerosis; atherogenesis;  
KM hypertension; anorexia nervosa; nutritional disorder;  
KM psychiatric disorder; Alzheimers disease; degeneration;  
KM neurological disease; nervous system injury; neurodegenerative disease;  
KM neurological disorder.  
XX  
XX Mus sp.  
OS  
XX  
XX WO2005013901-A2.  
PN  
XX 17-FEB-2005.  
PD  
XX 30-JUL-2004; 2004WO-US025300.  
PF  
XX 31-JUL-2003; 2003US-0492056P.  
PR 31-OCT-2003; 2003US-0516303P.  
PR 19-DEC-2003; 2003US-0531596P.  
PR 14-APR-2004; 2004US-0562417P.  
XX  
XX (ISIS-) ISIS PHARM INC.  
PA  
XX Esau C, Lollo B, Bennett CF, Freier SM, Griffey RH, Baker BF;  
PI Vickers T, Marcusson EG, Koller E, Swayze EE, Jain R, Bhat B;  
PI Petalita E;  
XX WPI; 2005-163123/17.  
DR  
XX New oligomeric compound that can hybridize with or sterically interfere  
PT with nucleic acid molecules comprising or encoding small non-coding RNA  
PT targets, useful for treating e.g., cancer and diabetes.  
XX  
XX Example 34; SEQ ID NO 1316; 854bp; English.  
PS



```
XX The invention relates to an oligomeric compound comprising a first region
CC and a second region, where at least one region contains a modification,
CC and a portion of the oligomeric compound is targeted to a small non-
CC coding RNA target nucleic acid that is miRNA (micro-RNA), or its
CC precursor (primary-miRNA, pri-miRNA). Also included are a composition
CC comprising a first oligomeric compound and a second oligomeric compound
CC (where at least one of the oligomeric compounds contains a modification,
CC at least a portion of the first oligomeric compound is capable of
CC hybridizing with at least a portion of the second oligomeric compound,
CC and at least a portion of the first oligomeric compound is targeted to a
CC small non-coding RNA target nucleic acid), a pharmaceutical composition
CC comprising the composition cited above (and a carrier), a kit or assay
CC device comprising the composition, modulating the expression of a small
CC non-coding RNA target nucleic acid in a cell (or tissue or animal),
CC treating or preventing a disease or disorder associated with a small non-
CC coding RNA target nucleic acid, treating a condition in an animal,
CC treating or preventing a disease or disorder associated with CD36,
CC methods of screening an oligomeric compound for an effect on miRNA
CC signaling, methods of screening a miRNA precursor for an effect in miRNA
CC signaling, methods of modulating translation (or apoptosis, conversion of
CC a precursor miRNA into miRNA, or cellular differentiation), identifying
CC an RNA transcript bound to a small non-coding RNA, arresting (or
CC delaying) entry of a cell at the G2/M phase, interfering with chromosome
CC segregation, a method of triggering apoptosis, detecting a miRNA
CC precursor, identifying a miRNA target, modulating cellular
CC differentiation, treating a condition associated with adipocyte
CC differentiation in an animal, treating/preventing a disease/disorder
CC associated with aberrant regulation of the cell cycle by miRNAs,
CC maintaining a pluripotent stem cell and identifying a small non-coding
CC RNA binding site. The oligomeric compound is targeted to a region
CC flanking a Drosophila cleavage site within a pri-miRNA. It stimulates an
CC increase in expression of a pri-miRNA. The compounds and compositions are
CC useful for treating a disease or disorder resulting from chromosomal non-
CC disjunction, altered methylation, acetylation, or pseudouridylation state
CC of chromosomes, such as a hyperproliferative condition (e.g. cancer,
CC neoplasia or angiogenesis), diabetes (Type 2 diabetes), obesity,
CC hyperlipidemia, atherosclerosis, atherogenesis, hypertension, anorexia,
CC Alzheimer's disease, a central nervous system injury or neurodegenerative
CC disorder. The present sequence is a primary miRNA of the invention.
XX
SQ Sequence 70 BP; 23 A; 12 C; 18 G; 0 T; 17 U; 0 Other;
Query Match 74.5%; Score 61.8; DB 14; Length 70;
Best Local Similarity 96.9%; Pred. No. 1.2e-12;
Matches 63; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
OY 11 AAGUAGCGCACUAUUGGUTUGGUAUUGGUAAGGUGCAGGCCAUAUUGUGUGCCU 70
DB 1 AAGUAGCGCACUAUUGGUTUGGUAUUGGUAAGGUGCAGGCCAUAUUGUGUGCCU 60
OY 71 CAAAA 75
DB 61 CAAAA 65
RESULT 13
ID AEB92912 standard; DNA; 40 BP.
AC AEB92912;
XX
DT 03-NOV-2005 (first entry)
XX
DE Human microRNA gene probe SEQ ID NO 325.
XX
KW cytosolic; gene therapy; diagnosis; prognosis; pharmaceutical;
KW gene expression; musculoskeletal disease; hematological disease;
KW immunostimulant; andrology; neurological disease; dermatological disease;
KW endocrine disease; gynecology and obstetrics; respiratory disease;
KW gastrointestinal disease; genitourinary disease; cancer; neoplasm;
KW microRNA; miR; ss; bioclip; probe.
XX
```

```
OS Homo sapiens.
XX
PN WO2005078139-A2.
XX
PD 25-AUG-2005.
XX
PF 09-FEB-2005; 2005WO-US004865.
XX
PR 09-FEB-2004; 2004US-0542929P.
PR 09-FEB-2004; 2004US-0542940P.
PR 09-FEB-2004; 2004US-0542963P.
PR 09-FEB-2004; 2004US-0543119P.
PR 18-JUN-2004; 2004US-0580797P.
PR 18-JUN-2004; 2004US-0580959P.
XX
PA (UVE-) UNIV JEFFERSON THOMAS.
XX
PI Croce CM, Liu C, Calin GA;
XX
DR WPI; 2005-571622/59.
XX
PT Diagnosing a cancer-associated chromosomal feature, e.g. bladder cancer,
PT tumors, or myelodysplastic syndrome, comprises evaluating a miR gene in
PT the test sample.
XX
PS Example 10; SEQ ID NO 325; 170pp; English.
XX
XX The invention describes diagnosing whether a subject has, or is at risk
XX for developing, a cancer linked to a cancer-associated chromosomal
XX feature, comprises evaluating the status in the subject of at least one
XX chromosomal feature. Also described are a pharmaceutical composition
XX comprising an isolated miR gene product or a nucleic acid encoding an
XX isolated miR gene product from an miR gene located in close proximity to
XX a cancer-associated chromosomal feature and is not miR15 or miR16, and a
XX pharmaceutical carrier; and a method of treating cancer associated with a
XX cancer-associated chromosomal feature in a subject. The miR, composition,
XX and method are useful for diagnosing and treating a cancer-associated
XX chromosomal feature, where the cancer is bladder cancer, esophageal
XX cancer, lung cancer, stomach cancer, kidney cancer, cervical cancer,
XX ovarian cancer, breast cancer, lymphoma, Ewing sarcoma, hematopoietic
XX tumors, solid tumors, gastric cancer, colorectal cancer, brain cancer,
XX epithelial cancer, nasopharyngeal cancer, uterine cancer, hepatic cancer,
XX head-and-neck cancer, renal cancer, male germ cell tumors, malignant
XX mesothelioma, myelodysplastic syndrome, pancreatic or biliary cancer,
XX prostate cancer, thyroid cancer, urothelial cancer, renal cancer, Wilms'
XX tumor, small cell lung cancer, melanoma, skin cancer, osteosarcoma,
XX neuroblastoma, leukemia (acute lymphocytic leukemia, acute myeloid
XX leukemia, chronic lymphocytic leukemia), glioblastoma multiforme,
XX medulloblastoma, lymphoplasmacytoid lymphoma, rhabdomyosarcoma, B-cell
XX chronic lymphocytic leukemia, or B-cell chronic lymphocytic leukemia
XX associated with an unmutated IgH gene, ZAP-70 expression, CD38
XX expression, a deletion at chromosome 11q23, a loss or mutation of TP53 or
XX their combination. This sequence represents a human microRNA (miRNA) gene
XX probe used in the creation of an oligonucleotide microchip for miRNA
XX profiling.
SQ Sequence 40 BP; 11 A; 5 C; 11 G; 13 T; 0 U; 0 Other;
Query Match 48.2%; Score 40; DB 14; Length 40;
Best Local Similarity 67.5%; Pred. No. 0.00011;
Matches 27; Conservative 13; Mismatches 0; Indels 0; Gaps 0;
OY 1 CCUUGAGUAAAGUAGCAGCAUAUUGGUTUGGUAUUG 40
DB 1 CCTTGAGTAAAGTAGCAGCACAATAATGCTTTGGATT 40
RESULT 14
ID AEB92913 standard; DNA; 40 BP.
XX
AC AEB92913;
XX
```



XX	03-NOV-2005	(first entry)	
DT			
DE	Human microRNA gene probe SEQ ID NO 326.		
XX			
XX			
KW	cytostatic; gene therapy; diagnosis; prognosis; pharmaceutical;		
KW	gene expression; musculoskeletal disease; hematological disease;		
KW	immunostimulant; andrology; neurological disease; dermatological disease;		
KW	endocrine disease; gynecology and obstetrics; respiratory disease;		
KW	gastrointestinal disease; genitourinary disease; cancer; neoplasm;		
KW	microRNA; miR; ss; biochip; probe.		
XX			
OS	Homo sapiens.		
XX			
PN	MO2005078139-A2.		
XX			
PD	25-AUG-2005.		
XX			
PF	09-FEB-2005; 2005MO-US004865.		
XX			
PR	09-FEB-2004; 2004US-0542929P.		
PR	09-FEB-2004; 2004US-0542940P.		
PR	09-FEB-2004; 2004US-0542939P.		
PR	09-FEB-2004; 2004US-0543119P.		
PR	18-JUN-2004; 2004US-0580797P.		
XX	18-JUN-2004; 2004US-0580959P.		
PA	(UJJE-) UNIV JEFFERSON THOMAS.		
PI	Croce CM, Liu C, Galin GA;		
DR	WPI; 2005-571622/58.		
XX			
PT	Diagnosing a cancer-associated chromosomal feature, e.g. bladder cancer,		
PT	tumor, or myelodysplastic syndrome, comprises evaluating a miR gene in		
PT	the test sample.		
XX			
PS	Example 10; SEQ ID NO 326; 170bp; English.		
CC	The invention describes diagnosing whether a subject has, or is at risk		
CC	for developing, a cancer linked to a cancer-associated chromosomal		
CC	feature, comprises evaluating the status in the subject of at least one		
CC	microRNA (miR) gene located in close proximity to the cancer-associated		
CC	chromosomal feature. Also described are a pharmaceutical composition		
CC	comprising an isolated miR gene product or a nucleic acid encoding an		
CC	isolated miR gene product from an miR gene located in close proximity to		
CC	a cancer-associated chromosomal feature and is not miR15 or miR16, and a		
CC	pharmaceutical carrier; and a method of treating cancer associated with a		
CC	cancer-associated chromosomal feature in a subject. The miR, composition,		
CC	and method are useful for diagnosing and treating a cancer-associated		
CC	chromosomal feature, where the cancer is bladder cancer, esophageal		
CC	cancer, lung cancer, stomach cancer, kidney cancer, cervical cancer,		
CC	ovarian cancer, breast cancer, lymphoma, Ewing sarcoma, hematopoietic		
CC	tumor, solid tumors, gastric cancer, colorectal cancer, brain cancer,		
CC	epithelial cancer, nasopharyngeal cancer, uterine cancer, malignant		
CC	head-and-neck cancer, renal cancer, male germ cell tumors, hepatocellular		
CC	mesothelioma, myelodysplastic syndrome, pancreatic or biliary cancer,		
CC	prostate cancer, thyroid cancer, urothelial cancer, renal cancer, Wilms's		
CC	tumor, small cell lung cancer, melanoma, skin cancer, osteosarcoma,		
CC	neuroblastoma, leukemia (acute lymphocytic leukemia, acute myeloid		
CC	leukemia), chronic lymphocytic leukemia), glioblastoma multiforme,		
CC	medulloblastoma, lymphoplasmacytoid lymphoma, rhabdomyosarcoma, B-cell		
CC	chronic lymphocytic leukemia, or B-cell chronic lymphocytic leukemia		
CC	associated with an unmutated IgVH gene, ZAP-70 expression, CD38		
CC	expression, a deletion at chromosome 11q23, a loss or mutation of TP53 or		
CC	their combination. This sequence represents a human microRNA (miRNA) gene		
CC	probe used in the creation of an oligonucleotide microchip for miRNA		
CC	profiling.		
XX			
XX	Sequence 40 BP; 8 A; 6 C; 12 G; 14 T; 0 U; 0 Other;		
XX			
Query Match	48.2%; Score 40; DB 14; Length 40;		
Best Local Similarity	65.0%; Pred No. 0.00011;		

[illegible]



GenCore version 5.1.9  
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OM nucleic - nucleic search, using sw model

Run on: November 1, 2006, 20:21:19 ; Search time 3848.83 Seconds  
(without alignments)  
1205.901 Million cell updates/sec

Title: US-10-706-798-1

Perfect score: 83  
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Scoring table: IDENTITY NUC  
Gapop 10% , Gapext 1.0

Searched: 48236798 seqs, 27959665780 residues

Total number of hits satisfying chosen parameters: 96473596

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

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1: gb\_est1: \*  
2: gb\_est3: \*  
3: gb\_est4: \*  
4: gb\_est5: \*  
5: gb\_est6: \*  
6: gb\_est7: \*  
7: gb\_est8: \*  
8: gb\_est9: \*  
9: gb\_est10: \*  
10: gb\_est11: \*  
11: gb\_est12: \*  
12: gb\_est13: \*  
13: gb\_est14: \*  
14: gb\_est15: \*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	77.2	93.0	486	11	A0672199 HS_2151_B
C 2	71.8	86.5	638	11	A2938498 2M0197A08
C 3	36.8	44.3	330	14	AL739377 Danio rer
C 4	34.4	41.4	893	14	AL28438 Tetradoon
C 5	32.4	39.0	486	11	A0672199 HS_2151_B
C 6	31	37.3	348	10	DR975958 Skin-13_B
C 7	30.6	36.9	690	11	A2830728
C 8	30.4	36.6	409	8	CV259755 MS02012.B
C 9	30.4	36.6	669	11	A2955179 2M0221K10
C 10	30.4	36.6	826	5	CK791915 AGENICOURT
C 11	30	36.1	657	12	CE734321 tigr-988-
C 12	30	36.1	901	14	CT224114 Sub scrof
C 13	29.8	35.9	752	8	CK206707 MNS11072
C 14	29.2	35.2	832	7	BE538951 601061142
C 15	29	34.9	266	1	AL701112 DKFZp686M
C 16	29	34.9	617	4	CB503344 Ssalmp650
C 17	28.8	34.7	757	7	BE228377 98A51771
C 18	28.8	34.7	797	9	CK492605 JGI_XZ638
C 19	28.8	34.7	820	9	CK405012 JGI_XZ736

C 20	28.8	34.7	822	11	B2117274
C 21	28.6	34.5	541	9	DA287889
C 22	28.6	34.5	765	14	CT385120 Sus scrof
C 23	28.6	34.5	793	12	CC925298 t083b14ba
C 24	28.4	34.2	445	12	CE142086 tigr-988-
C 25	28.4	34.2	633	13	CM371850 fdbp001f0
C 26	28.4	34.2	786	9	CK829205 JGI_CANK6
C 27	28.4	34.2	1019	12	CL039913
C 28	28.2	34.0	538	8	CO159141
C 29	28.2	34.0	551	11	B2148619
C 30	28.2	34.0	654	11	A0693353
C 31	28.2	34.0	654	5	CP387823
C 32	28.2	34.0	691	5	CP387852
C 33	28.2	34.0	719	9	CO366636
C 34	28.2	34.0	829	11	B2205743
C 35	28.2	34.0	835	9	DN462069
C 36	28.2	34.0	906	13	CL992915
C 37	28.2	34.0	908	10	DT626902
C 38	28.2	34.0	917	13	CZ792260
C 39	28	33.7	433	5	CK058325
C 40	28	33.7	446	1	AU173105
C 41	28	33.7	466	5	CK048847
C 42	28	33.7	516	5	CK035528
C 43	28	33.7	536	5	CK083202
C 44	28	33.7	543	14	CNS005WP
C 45	28	33.7	549	9	CK632947

#### ALIGNMENTS

RESULT 1  
A0672199/c  
LOCUS  
DEFINITION  
A0672199 486 bp DNA linear GSS 24-JUN-1999  
HS\_2151\_B1 B12 MR CIT Approved Human Genomic Sperm Library D Homo  
sapiens genomic clone Plate=2151 Col=23 Row=D, genomic survey  
sequence.

ACCESSION  
A0672199  
VERSION  
A0672199.1 GI:5204870  
KEYWORDS  
GSS.  
SOURCE  
Homo sapiens (human)

ORGANISM  
Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;  
Hominidae; Homo.

REFERENCE  
1 (bases 1 to 486)  
Mahairas,G.G., Wallace,J.C., Smith,K., Swartzell,S., Holzman,T.,  
Keller,A., Shaker,R., Furlong,J., Young,J., Zhao,S., Adams,M.D., and  
Hood,L.

TITLE  
Sequence-tagged connectors: A sequence approach to mapping and  
scanning the human genome  
Proc. Natl. Acad. Sci. U.S.A. 96 (17), 9739-9744 (1999)

JOURNAL  
PUBMED  
10449764  
Contact: Mahairas GG, Wallace JC, Hood L

COMMENT  
High Throughput Sequencing Center  
University of Washington  
401 Queen Anne Avenue North, Seattle, WA 98109, USA  
Tel: (206) 616-3618  
Fax: (206) 616-3887

Email: jwallace@u.washington.edu  
Clones may be purchased from Research Genetics (info@resgen.com).  
BAC end Web Server: http://www.htsc.washington.edu  
Plate: 2151 row: D column: 23  
Seq primer: M13 Reverse

FEATURES  
Claus: BNC ends  
High quality sequence stop: 486.  
Location/Qualifiers

1..486  
/organism="Homo sapiens"  
/mol\_type="genomic DNA"  
/db\_xref="taxon:9606"  
/clone="Plate=2151 Col=23 Row=D"  
/sex="male"

```

/clone_11b="CIR Approved Human Genomic Sperm Library D
/notes="Organ: sperm; Vector: pBel0BAC11; BAC Clones in
E-Coli DH10B"

```

Query Match	93.0%;	Score 77.2;	DB 11;	Length 486;
Best Local Similarity	68.7%;	Pred. No. 3.1e-15;		
Matches 57;	Conservative 22;	Mismatches 4;	Indels 0;	Gaps 0;

Oy	1	CCUGGAGAUAAUUGUCGACCAUAUUUGUUUUGAAAAGGUCGGCCAAUU	60
	:	:::::	:
Dd	440	CCTTGNMATAAAGTGCGACACATATATGTATTTCAAAAGTGCGGCCATAT	381
Oy	61	UGUCUGCUCUCAAUAUACAAG	83
	:	:::::	:
Dd	380	TGTGCTGCCTCAAGCATACAAAG	358

RESULT 2	LOCUS	DEFINITION
AZ938498/c	AZ938498	638 bp DNA linear
	2M0197A08F	Mouse 10kb plasmid UUGC2M library Mus musculus genomic
	C106 UUGC2M0197A08 F,	genomic survey sequence.

ORGANISM	Mus musculus (house mouse)
SOURCE	Mus musculus
ACCESSION	

Amphibia: Anura; Reptalia: Crocodylia; Serpentes: Ophidia; Insecta: Coleoptera, Hymenoptera, Diptera, Lepidoptera; Mammalia: Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi; Muroidae; Muridae; Murinae; Mus.

TITLE	AUTHORS
Mouse whole genome scaffolding with paired end reads from 10kb	Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenan, E., Pedersen, T., Relliy, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R.

**JOURNAL**  
Plasmid insects  
**Unpublished (2000)**  
**COMMENT**  
Contact: Robert B. Weiss

University of Utah Genome Center  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
 84112, USA  
 Tel.: 801 585 5606  
 Fax: 801 585 7177  
 Email: [ddunn@genetics.utah.edu](mailto:ddunn@genetics.utah.edu)  
 Insert Length: 10000 Std Error: 0.00  
 Plate: 0197 row: A column: 08  
 Seq primer: CGTTGTAACACGACGCGCAGT  
 Class: plasmid ends  
 High quality sequence stop: 638.  
 Location/qualifiers

```

source
1. .638
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UGC2M0197A08"
/sex="female"
/lab_host="E. coli strain XL10-Gold, T1-resistant, F-"
/clone_11b="Mouse 10kb plasmid UGC2M library"
/notes="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (female) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptor DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel

```

electrophoresis. Vector DNA was prepared from a derivative of pMW2 (G14732114|CB|AR29072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adapted mouse DNA was annealed to adapted vector DNA, and transformed into chemically-competent *E. coli* XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

Query Match	86.5%;	Score 71.8;	DB 11;	length 638;
Best Local Similarity	72.0%;	Pred. No. 2.e-13;		
Matches 54;	Conservative 19;	Mismatches 2;	Indels 0;	Gaps 0;

**Oy** 1 CCUUGAGUAAGAAGACGACAUAUAGUUUUUGAUAUUUUAAAAAGUGCAGGCCCAUAA 60  
:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|  
**Db** 201 CTTGGAGTAAAGTAGCAGCACATMAATGTCTTGCGATCTTTGAAAAGTCGACGCCCATAC 142

QY	61	UGUGCUGCCUCACAAA	75
	:	:	:
	:	:	:
	:	:	:
	:	:	:
	:	:	:
DB	141	TGTGCTGTGCTTCAAAA	127

RESULT 3	330 bp	DNA	1 linear	GSS 27-NOV-2002
DR22A19S				
LOCUS				
DR22A19S				
DEFINITION				
Danio rerio genomic clone DKFZ-22A19, genomic survey sequence.				
Accession				
U770072				

VERSION	AL7939377.1	GI:21348782
KEYWORDS	GSS	
SOURCE	Danio rerio (zebrafish)	

**REFERENCE**  
**AUTHORS**

Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Actinopterygii; Neopterygii; Teleostei; Ostariophysi;  
Cypriniformes; Cyprinidae; Danio.  
1 (bases 1 to 330)

Humphray, S.J., Huckle, E. and Hunt, S.E.

**JOURNAL**  
DATE SUBMITTED: 06-JUN-2002  
Submitted to: The Sanger Institute, Wellcome Trust Genome  
Campus, Hinxton, Cambridgeshire, CB10 1SA, UK. E-mail contact:

**COMMENT**  
This sequence was generated from the S66 end of BAC 22A19. 22A19 is part of the Dantokey BAC library created by R. Plasterk and N.V. Keygene.  
Further details: [http://www.sanger.ac.uk/Projects/D\\_retro/](http://www.sanger.ac.uk/Projects/D_retro/).

```

source
1. .330
   /organism="Danio rerio"
   /mol_type="genomic DNA"
   /db_xref="taxon:7955"
   /clone="DKR1-22A19"
   /tissue_type="testis"
   /note="vector pIndigoBAC-536"

```

Query Match	44.3%	Score 36.8	DB 14	Length 330
Best Local Similarity	52.4%	Pred. No. 0.17		
Matches 44	Conservative 17	Mismatches 22	Indels 1	Gaps 1

[illegible]

QY	60	UUGUGUGUCUCAAUACAAG	83
Db	209	CTGTGCTGCGGCACACGACAG	232

RESULT 4	CNS032XX	LOCUS	DEFINITION
	CNS032XX	893 bp	DNA
			Linear
			GSS 01-SEP-2000
			Tetradon nigroviridis genome survey sequence T7 end of clone
			207L4 of library G from Tetradon nigroviridis, genomic survey

sequence.  
ACCESSION AL225438.1 GI:788433  
VERSION GSS: genome survey sequence.  
KEYWORDS Tetraodon nigroviridis  
SOURCE Tetraodon nigroviridis  
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei; Acanthomorphi; Acanthopterygii; Percomorpha; Tetraodontiformes; Tetraodontidae; Tetraodontidae; Tetraodon.

REFERENCE 1  
AUTHORS Roest Crollius,H., Jallion,O., Dasilva,C., Bouneau,L., Fisher,C., Bernot,A., Fizeser,C., Winkler,P., Brotlier,P., Quetier,F., Saurin,M. and Weissenbach,J.  
TITLE Estimate of human gene number provided by genome-wide analysis using Tetraodon nigroviridis DNA sequence  
JOURNAL Nat. Genet. 25 (2), 235-238 (2000)  
PUBMED 10835645

REFERENCE 2  
AUTHORS Roest Crollius,H., Jallion,O., Dasilva,C., Ozouf-Costaz,C., Fizeser,C., Fischer,C., Bouneau,L., Billault,A., Quetier,F., Saurin,M., Bernot,A. and Weissenbach,J.  
TITLE Characterization and repeat analysis of the compact genome of the freshwater pufferfish Tetraodon nigroviridis  
JOURNAL Genome Res. 10 (7), 939-949 (2000)  
PUBMED 10899143

REFERENCE 3 (bases 1 to 893)  
AUTHORS Genoscope.  
TITLE Direct Submission  
JOURNAL Submitted (12-APR-2000) Genoscope - Centre National de Sequencage : BP 191 91006 Evry cedex - FRANCE (E-mail : seqref@genoscope.cns.fr)  
COMMENT - Web : www.genoscope.cns.fr  
This sequence is a single read and was generated as part of a large scale clone-and-sequencing project of the Tetraodon nigroviridis genome. For more information, please take a look at http://www.genoscope.cns.fr/tetraodon.  
FEATURES  
source  
1..893  
/organism="Tetraodon nigroviridis"  
/mol\_type="genomic DNA"  
/db\_xref="taxon:99883"  
/clone="207L24"  
/clone\_1lb="G"  
/note="Genoscope sequence ID : COAG207DF12LP1 end : 77"

ORIGIN  
Query Match 41.4%; Score 34.4; DB 14; Length 893;  
Best Local Similarity 51.7%; Pred. No. 1.3;  
Matches 31; Conservative 13; Mismatches 16; Indels 0; Gaps 0;

Qy 13 GUACGACGACUAAUGUUGAUUUUGAAAAGCUGCAGCCGCAUUAUUGUCGCGCCCA 72  
Db 630 GTACGACGACGAAAGGTTGTGAGTTACCTGAGATTCAGGCAATGCTGTGCGCGCA 689

RESULT 5  
LOCUS AO672199  
DEFINITION HS\_2151\_B12\_MR CIT Approved Human Genomic Sperm Library D Homo sapiens genomic clone Plate=2151 Col=23 Row=D, genomic survey sequence.  
ACCESSION AO672199  
VERSION AO672199.1 GI:5204870  
KEYWORDS GSS.  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homnidae; Homo  
1 (bases 1 to 486)  
Mahaitas,G.G., Wallace,J.C., Smith,K., Swartzell,S., Holzman,T., Keller,A., Shaker,R., Furlong,J., Young,J., Zhao,S., Adams,M.D. and

Hood,L.  
Sequence-tagged connectors: A sequence approach to mapping and scanning the human genome  
Proc. Natl. Acad. Sci. U.S.A. 96 (17), 9739-9744 (1999)  
10449764  
CONTACT: Mahaitas GG, Wallace JC, Hood L  
High Throughput Sequencing Center  
University of Washington  
401 Queen Anne Avenue North, Seattle, WA 98109, USA  
Tel: (206) 616-3618  
Fax: (206) 616-3887  
Email: jwallace@u.washington.edu  
Clones may be purchased from Research Genetics (info@resgen.com).  
BAC end Web Server: http://www.htsc.washington.edu  
Plate: 2151 row: D column: 23  
Seq primer: M13 Reverse  
Class: BAC ends  
High quality sequence stop: 486.  
FEATURES  
source  
1..486  
/organism="Homo sapiens"  
/mol\_type="genomic DNA"  
/db\_xref="taxon:9606"  
/clone="Plate=2151 Col=23 Row=D"  
/sex="male"  
/clone\_1lb="CIT Approved Human Genomic Sperm Library D"  
/note="Organ: sperm; Vector: pBelOBAC11; BAC Clones in E-Coli DH10B"

ORIGIN  
Query Match 39.0%; Score 32.4; DB 11; Length 486;  
Best Local Similarity 44.6%; Pred. No. 5.7;  
Matches 37; Conservative 14; Mismatches 32; Indels 0; Gaps 0;

Qy 1 CCUGGAGUAAAGGACGACAUAAUGUUGAUUUUGAAAAGCUGCAGCCCAU 60  
Db 358 CCTGTGATTTCTTGAGGACGACATATGAGCTGACCTTTCAAAATACAAACCATTA 417

Qy 61 UGUGCUGCCUCGCAAAUUAUACAAG 83  
Db 418 TGTCCTCTACTTATCTNCAAG 440

RESULT 6  
LOCUS DR975958/c  
DEFINITION Skin-13\_B03\_pDNR-LTB-SF11A A. transmontanus skin express library  
ACCESSION DR975958  
VERSION DR975958.1 GI:84178869  
KEYWORDS EST.  
SOURCE Acipenser transmontanus (white sturgeon)  
ORGANISM Acipenser transmontanus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygii; Chondrostei; Acipenseriformes; Acipenseridae; Acipenser.  
1 (bases 1 to 348)  
Mariani,V., Malinverni,R. and Giuffrè,E.  
Transcriptome analysis of the American sturgeon (Acipenser transmontanus): pathways of gene expression in the spleen and skin unpublished (2005)  
CONTACT: Valentina Mariani  
Livestock Genomics 1  
PRP-CERSA  
Via Elnstein, Loc. Ca.na Codazza, 26900 Lodi (LO), Italy  
Email: valentina.mariani@tecnoparco.org.  
FEATURES  
source  
1..348  
/organism="Acipenser transmontanus"  
/mol\_type="mRNA"  
/db\_xref="taxon:7904"  
/clone\_1lb="A. transmontanus skin express library"  
/note="Organ: skin"



```

/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UNGCM0221K1.0"
/sex="Female"
/lab_host="E. coli strain XL10-Gold, T1-resistant, F-"
/clone_lib="Mouse 10kb plasmid UNGCM library"
/note="Vector: PWD429; Purified genomic DNA from M.
musculus C57BL/6J (female) was obtained from the Jackson
laboratory mouse DNA Resource

```

```
location/Qualifiers
1..826
/organism="Mus musculus"
/mol_type="mRNA"
/db_xref="taxon:10090"
/clone="IMAGE:30846441"
/tissue_type="Pooled thymoids from 5 mice"
/lab_host="DH10B Tona"
/clone_id="N1H_MGC_230"
/notes="2Nc1: thymoid; Vector: pExpress-1; Site 1: Nc1; Site 2: Nc1; RNA obtained from 5 normal wild-type mice
```

thyroid. cDNA was primed using oligo-dT primer:  
5'-pGACTAGTTCATGATCGGAGCGCCGCTT25-3' and cloned into  
the EcoRV/NotI sites of pGEX3-1. Size-selection 1.4 kb  
resulted in an average insert size of 1.2 kb. Normalized  
version of this library is NIH\_MGC\_1919 library constructed  
by Express Genomics (Frederick, MD). Note: this is a  
NIH\_MGC Library."

## ORIGIN

Query Match 36.6%; Score 30.4; DB 5; Length 826;

Best Local Similarity 47.2%; Pred. No. 30; Mismatches 26; Indels 0; Gaps 0;

Matches 34; Conservative 12; Mismatches 26; Indels 0; Gaps 0;

QY 7 AGUAAAGUAGCACAUAUUGUUUGAUUUUGAAAGUCAGGCCAUUUGUCU 66  
DB 570 AATATATTAACATGATGGAATGGTGAAGAGCTTGAAGAGTGAAGGCTTAACCTTGAT 629  
QY 67 GCCUCAAUAUA 78  
DB 630 CCTGCATTAATA 641

RESULT 11  
CE734321/c 657 bp DNA linear GSS 30-SEP-2003

LOCUS tigr-gss-dog-17000330179737 Dog library Canis familiaris genomic,  
DEFINITION genomic survey sequence.

ACCESSION CE734321 GI:37074441

VERSION CE734321.1

KEYWORDS GSS.

SOURCE Canis familiaris (dog)

ORGANISM Canis familiaris

REFERENCE 1 (bases 1 to 657)

AUTHORS Kirness,E.F., Batna,V., Halpern,A.L., Levy,S., Remington,K.,  
Rusch,D.B., Delcher,A.L., Pop,M., Wang,W., Fraser,C.M. and  
Venter,J.C.

TITLE The dog genome: survey sequencing and comparative analysis

JOURNAL Science 301 (5641), 1898-1903 (2003)

COMMENT Contact: Kirness EF  
The Institute for Genomic Research  
Department of Eukaryotic Genomics, TIGR, 9712 Medical Center Drive,  
Rockville, MD 20850, USA  
Tel: 301-838-0200  
Fax: 301-838-0208  
Email: ekirness@tigr.org  
Class: shotgun.

FEATURES

source

1..657  
/organism="Canis familiaris"  
/mol\_type="genomic DNA"  
/strain="Standard Poodle"  
/db\_xref="taxon:9615"  
/clone\_lib="Dog Library"  
/note="Site 1: Batxi; Libraries were prepared from  
peripheral blood"

ORIGIN

Query Match 36.1%; Score 30; DB 12; Length 657;

Best Local Similarity 42.9%; Pred. No. 40;

Matches 30; Conservative 15; Mismatches 25; Indels 0; Gaps 0;

QY 12 AGUAGCAGCACAUAUUGUUUGAUUUUGAAAGUCAGGCCAUUUGUCUCCU 71  
DB 564 AGTAAAGGCAATCTCTGCTCTTGAACAGAGAGCTTCTTTTGTGCTGCTT 505  
QY 72 AAAAAAUA 81  
DB 504 CAGACTAGAA 495

RESULT 12  
CT224114/c 901 bp DNA linear GSS 02-NOV-2005

LOCUS Sus scrofa genomic clone CH242-234B11, genomic survey sequence.

DEFINITION Sus scrofa genomic clone CH242-234B11, genomic survey sequence.

ACCESSION CT224114

VERSION CT224114.1 GI:79766278

KEYWORDS GSS.

SOURCE Sus scrofa (pig)

ORGANISM Sus scrofa

REFERENCE 1 (bases 1 to 901)

AUTHORS Humphray,S.J., Plumb,R.W. and Durham,J.L.

TITLE Direct Submission

JOURNAL Submitted (01-NOV-2005) The Sanger Institute, Wellcome Trust Genome

Campus, Hinxton, Cambridgeshire, CB10 1SA, UK. E-mail enquiries:

humquerry@sanger.ac.uk Unpublished

This sequence was generated from the SP6 end of BAC 234B11. 234B11

is part of the CHORI-242 BAC library created by P. de Jong. Further

details: [http://www.sanger.ac.uk/Projects/S\\_scrofa/](http://www.sanger.ac.uk/Projects/S_scrofa/).

Location/Qualifiers

1..901  
/organism="Sus scrofa"  
/mol\_type="genomic DNA"  
/db\_xref="taxon:9823"  
/clone="CH242-234B11"  
/tissue\_type="white blood cells"  
/note="vector pTRABAC1.3\_BamHI  
sex female"

ORIGIN

Query Match 36.1%; Score 30; DB 14; Length 901;

Best Local Similarity 48.6%; Pred. No. 42;

Matches 34; Conservative 11; Mismatches 25; Indels 0; Gaps 0;

QY 11 AAGUAGCAGCACAUAUUGUUUGAUUUUGAAAGUCAGGCCAUUUGUCUCCU 70  
DB 480 AACTAACAGCATTAATAAAGGTTGTGMAAGATCTTATGTCACCAAAATTAATTAAGACT 421  
QY 71 CAAAAAUA 80  
DB 420 CAAACATACA 411

RESULT 13

LOCUS CX206707 752 bp mRNA linear EST 29-DEC-2004

DEFINITION MNS11072 Mouse Neurosphere Normalized cDNA library Mus musculus

ACCESSION CX206707

VERSION CX206707.1 GI:56861999

KEYWORDS EST.

SOURCE Mus musculus (house mouse)

ORGANISM Mus musculus

REFERENCE 1 (bases 1 to 752)

AUTHORS Williams,C., Wirta,V., Lundberg,J. and Friesen,U.

TITLE Expressed sequence tags of cDNA clones from murine neurospheres

JOURNAL Unpublished (2005)

COMMENT Contact: Williams, C.

Molecular Biotechnology

Institution of Biotechnology

Albano University Center, KTH-Royal Institute of Technology, 106

91 Stockholm, Sweden

Tel: +4685378332.

Fax: +4685378481.

Email: cecilia.williams@biotech.kth.se

Seq primer: M13REV.

Location/Qualifiers

FEATURES



## SOURCE

1. .752  
/organism="Mus musculus"  
/mol\_type="mRNA"  
/strain="C57BL/6"  
/db\_xref="taxon:10090"  
/sex="MALE"  
/tissue\_type="Lateral wall of lateral ventricle"  
/cell\_type="Early passage neurosphere"  
/dev\_stage="Adult"  
/clone\_lib="Mouse Neurosphere Normalized cDNA library"  
/note="Organ: Adult brain; Vector: pCMVSPORT6.0; A cDNA library was constructed in pCMVSPORT6.0 from RNA isolated from neurospheres of adult male and female mice. Custom normalized cDNA library by Invitrogen/Reagen"

## ORIGIN

Query Match 35.9%; Score 29.8; DB 8; Length 752;  
Best Local Similarity 43.8%; Pred. No. 47;  
Matches 32; Conservative 14; Mismatches 27; Indels 0; Gaps 0;

QY 11 AAGUAGCAGCACAUAUGGUGUUGAUAAGGUGAGGCAUAUUGUGCGCU 70  
DB 429 AATGTGCTGATCTTCCCATTTACCAAGATTTGGGAGGCTGCTGCCCATTTCTGCTT 488

QY 71 CAAAAUACAAGG 83  
DB 489 CTCAGTACAAAGG 501

RESULT 14 832 bp mRNA linear EST 09-AUG-2000  
BE538951 601061142F1 NIH\_MGC\_10 Homo sapiens cDNA clone IMAGE:3447515 5',  
LOCUS mRNA sequence.  
DEFINITION  
VERSION BE538951  
KEYWORDS BE538951.1 GI:3767596  
SOURCE EST.  
ORGANISM Homo sapiens (human)  
Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;  
Hominiidae; Homo.  
1 (bases 1 to 832)  
NIH-MGC http://mgi.nci.nih.gov/.  
National Institutes of Health, Mammalian Gene Collection (MGC)  
JOURNAL Unpublished (1999)  
COMMENT Contact: Robert Strausberg, Ph.D.  
Email: cgapds-remail.nih.gov  
Tissue Procurement: ATCC  
CDNA Library Preparation: Life Technologies, Inc.  
CDNA Library Arrayed by: Incyte Genomics, Inc.  
DNA Sequencing by: Incyte Genomics, Inc.  
Clone distribution: MGC clone distribution information can be  
found through the I.M.A.G.E. Consortium/LNL at:  
http://image.llnl.gov  
Plate: LRAM8421 row: d column: 12  
High quality sequence start: 4  
High quality sequence stop: 563.  
Location/Qualifiers

1. .832  
/organism="Homo sapiens"  
/mol\_type="mRNA"  
/db\_xref="taxon:9606"  
/clone="IMAGE:3447515"  
/cell\_line="MGC36"  
/lab\_host="DH10B"  
/clone\_id="NIH\_MGC\_10"  
/note="Organ: cervix; Vector: pCMV-SPORT6; Site 1: NotI;  
Site 2: SalI; Cloned unidirectionally. Primer: oligo dt.  
Average insert size 1.5 kb. Library prepared by Life  
Technologies."

## FEATURES

## SOURCE

1. .832  
/organism="Homo sapiens"  
/mol\_type="mRNA"  
/db\_xref="taxon:9606"  
/clone="IMAGE:3447515"  
/cell\_line="MGC36"  
/lab\_host="DH10B"  
/clone\_id="NIH\_MGC\_10"  
/note="Organ: cervix; Vector: pCMV-SPORT6; Site 1: NotI;  
Site 2: SalI; Cloned unidirectionally. Primer: oligo dt.  
Average insert size 1.5 kb. Library prepared by Life  
Technologies."

## ORIGIN

Query Match 35.2%; Score 29.2; DB 7; Length 832;  
Best Local Similarity 50.0%; Pred. No. 77;  
Matches 41; Conservative 8; Mismatches 33; Indels 0; Gaps 0;

QY 2 CUUGAGUAAAGUAGCAGCAUAUUGUUGAUAAGGUGAGGCAUAU 61  
DB 94 CTTTCACTAATGATTCACCAACAAAGTGGGGTGAAGACAAAGCAAGGCCGCTT 153

QY 62 GUGCGGCGUCAAUAUACAAGG 83  
DB 154 TCTGAGCATCAAAAGACCAAG 175

RESULT 15 266 bp mRNA linear EST 04-SEP-2003  
AL701112/c 266 bp mRNA linear EST 04-SEP-2003  
LOCUS DKFZp686M10120\_r1.686 (synonym: hlcc3) Homo sapiens cDNA clone  
DEFINITION DKFZp686M10120\_5', mRNA sequence.  
VERSION AL701112  
ACCESSION AL701112  
KEYWORDS EST.  
SOURCE GI:19621645  
ORGANISM Homo sapiens (human)  
Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;  
Hominiidae; Homo.  
1 (bases 1 to 266)  
Ostenwaelder, B., Obermaier, B., Mewes, W., Mewes, H.W., Weil, B. and  
Wiemann, S.  
EST (Ostenwaelder, B., Obermaier, B., Mewes, H.W., Weil, B. and  
Wiemann, S.)  
Unpublished (2001)  
JOURNAL  
COMMENT Contact: MIPS  
MIPS

Ingolstaedter Landstr. 1, D-85764 Neuherberg, Germany  
This is the 5' sequence of the clone insert  
Clone from S. Wiemann, Molecular Genome Analysis, German Cancer  
Research Center (DKFZ); Email s.wiemann@dkfz-heidelberg.de;  
sequenced by MediGenomix (Martinried/Germany) within the cDNA  
sequencing consortium of the German Genome Project. No sl sequence  
available.  
This clone (DKFZp686M10120) is available at the RZPD in Berlin.  
Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059  
Berlin-Charlottenburg, GERMANY; Email: clones@rzpd.de.  
Location/Qualifiers

1. .266  
/organism="Homo sapiens"  
/mol\_type="mRNA"  
/db\_xref="taxon:9606"  
/clone="DKFZp686M10120"  
/dev\_stage="adult"  
/lab\_host="DH10B"  
/clone\_lib="686 (synonym: hlcc3)"  
/note="Vector: pTribEx2; Site\_1: SfiIA; Site\_2: SfiIB;  
cDNA-collection"

## ORIGIN

Query Match 34.9%; Score 29; DB 1; Length 266;  
Best Local Similarity 44.3%; Pred. No. 74;  
Matches 27; Conservative 14; Mismatches 20; Indels 0; Gaps 0;

QY 20 CACUAUUGUUGUUGAUAAGGUGAGGCAUAUUGUGUGCGCUCAAAAUAC 79  
DB 164 CACATATATATTAATTTTCAATATGCGATGTTGTGCTTCAATAAATCA 105

QY 80 A 80  
DB 104 A 104

Search completed: November 1, 2006, 22:21:04  
Job time : 3851.83 secs

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GenCore version 5.1.9  
Copyright (c) 1993 - 2006 Bioacceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: November 1, 2006, 20:59:58 ; Search time 143.867 Seconds  
(without alignments)  
1079,486 Million cell updates/sec

Title: US-10-706-798-1

Perfect score: 83

Sequence: 1 ccugagagaaagagcagc.....gcugcuaaauaacaag 83

Scoring table: IDENTITY NUC  
Gapop 10.0, Gapext 1.0

Searched: 1403666 seqs, 93554401 residues

Total number of hits satisfying chosen parameters: 2807332

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database :

Issued Patents NA.\*  
1: /EMC Celerra\_SIDS3/prodata/2/ina/1.COMB.seq.\*  
2: /EMC Celerra\_SIDS3/prodata/2/ina/5.COMB.seq.\*  
3: /EMC Celerra\_SIDS3/prodata/2/ina/6.COMB.seq.\*  
4: /EMC Celerra\_SIDS3/prodata/2/ina/6.COMB.seq.\*  
5: /EMC Celerra\_SIDS3/prodata/2/ina/7.COMB.seq.\*  
6: /EMC Celerra\_SIDS3/prodata/2/ina/8.COMB.seq.\*  
7: /EMC Celerra\_SIDS3/prodata/2/ina/9.COMB.seq.\*  
8: /EMC Celerra\_SIDS3/prodata/2/ina/10.COMB.seq.\*  
9: /EMC Celerra\_SIDS3/prodata/2/ina/11.COMB.seq.\*  
10: /EMC Celerra\_SIDS3/prodata/2/ina/12.COMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	29	34.9	33392	3	US-09-949-016-15172
2	27.6	33.3	4745	3	US-09-713-273A-19
3	27.4	33.0	86439	3	US-09-949-016-11945
4	27.4	33.0	86440	3	US-09-949-016-16990
5	27.4	33.0	194915	3	US-09-949-016-15584
6	27	32.5	3396	3	US-09-614-221A-280
7	27	32.5	3396	3	US-09-487-5588-71
8	26.8	31.8	13614	3	US-09-949-002-814
9	26.4	31.8	745	4	US-09-297-648-3922
10	26.4	31.8	1555	3	US-08-669-408B-9
11	26.4	31.8	198942	3	US-09-949-016-13209
12	26	31.3	601	3	US-09-949-016-50534
13	25.8	31.1	1664976	3	US-08-916-421B-1
14	25.8	31.1	1664976	3	US-09-692-570-1
15	25.6	30.8	601	3	US-09-949-016-30704
16	25.6	30.8	601	3	US-09-949-016-30705
17	25.6	30.8	601	3	US-09-949-016-182111
18	25.6	30.8	601	3	US-09-949-016-182112
19	25.6	30.8	31602	3	US-09-949-016-16961
20	25.6	30.8	36643	3	US-09-949-016-11860
21	25.6	30.8	36821	3	US-09-949-016-16403
22	25.6	30.8	36821	3	US-09-949-016-16404
23	25.6	30.8	139150	3	US-09-949-016-17398

24	25.6	30.8	139577	3	US-09-949-016-12879	Sequence 12879, A
25	25.4	30.6	6350	3	US-09-647-826-1	Sequence 1, Appl1
26	25.4	30.6	162450	3	US-09-345-882-1	Sequence 1, Appl1
27	25.4	30.6	162450	3	US-10-071-179-1	Sequence 1, Appl1
28	25.2	30.4	601	3	US-09-949-016-169536	Sequence 169536, A
29	25.2	30.4	601	3	US-09-949-016-169537	Sequence 169537, A
30	25.2	30.4	160759	3	US-09-949-016-16514	Sequence 16514, A
31	25.2	30.4	197113	3	US-09-949-016-12675	Sequence 12675, A
32	25.2	30.4	197113	3	US-09-949-016-17170	Sequence 17170, A
33	25.2	30.1	198	3	US-09-248-796A-13614	Sequence 13614, A
34	25	30.1	601	3	US-09-949-016-126639	Sequence 126639, A
35	25	30.1	601	3	US-09-949-002-2166	Sequence 2166, Ap
36	25	30.1	601	3	US-09-949-002-10608	Sequence 10608, A
37	25	30.1	3004	3	US-09-949-002-277	Sequence 277, App
38	25	30.1	3110	3	US-09-023-655-1114	Sequence 1114, Ap
39	25	30.1	3110	3	US-09-949-002-52	Sequence 52, Appl1
40	25	30.1	3415	2	US-08-054-077C-1	Sequence 1, Appl1
41	25	30.1	7350	3	US-09-949-016-3602	Sequence 1602, Ap
42	25	30.1	86960	3	US-09-949-016-15344	Sequence 15344, A
43	25	30.1	114183	3	US-09-949-002-849	Sequence 849, App
44	25	30.1	127546	3	US-09-949-002-624	Sequence 624, App
45	25	30.1	254366	3	US-09-822-871-3	Sequence 3, Appl1

#### ALIGNMENTS

```
RESULT 1
US-09-949-016-15172
Sequence 15172, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTNER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
TITLE OR INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: C1001307
CURRENT APPLICATION NUMBER: US/09/949, 016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241, 755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237, 768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231, 498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 15172
LENGTH: 33392
TYPE: DNA
ORGANISM: Human
FEATURE:
NAME/KEY: misc feature
LOCATION: (1)..(33392)
OTHER INFORMATION: n = A,T,C or G
US-09-949-016-15172
Query Match 34.9%; Score 29; DB 3; Length 33392;
Best Local Similarity 37.7%; Pred. No. 1.9;
Matches 29; Conservative 18; Mismatches 30; Indels 0; Gaps 0;
QY 1 CCUGAGAGAAAGACGACACAAUAGUGUGUUGAUAUUUGAAAAGCUGCAGGCCAAU 60
DB 29986 CCATTAAGTTAAATTAATTAATTAATTTCTGTAATTTGTAAGAGCTTATTA 30045
QY 61 UGUGGCCUCACAAAU 77
DB 30046 TGTTCCTCCCAATATAT 30062
RESULT 2
US-09-713-273A-19
Sequence 19, Application US/09713273A
Patent No. 6620987
```

```

1  GENERAL INFORMATION:
2  APPLICANT: Allen, Steve
3  APPLICANT: Butler, Kara
4  TITLE OF INVENTION: STARCH R1 PHOSPHORYLATION PROTEINS
5  PILE REFERENCE: B81158 US CIP
6  CURRENT APPLICATION NUMBER: US/09/713, 273A
7  CURRENT FILING DATE: 2000-11-15
8  PRIOR APPLICATION NUMBER: 60/081,143
9  PRIOR FILING DATE: 1998-04-09
10 PRIOR APPLICATION NUMBER: PCT/US99/07639
11 PRIOR FILING DATE: 1999-04-08
12 PRIOR APPLICATION NUMBER: 09/679, 933
13 PRIOR FILING DATE: 2000-10-05
14 NUMBER OF SEQ ID NOS: 21
15 SOFTWARE: Microsoft Office 97
16 SEQ ID NO 19
17 LENGTH: 4745
18 TYPE: DNA
19 ORGANISM: Glycine max
20 IS-09-713-273A-19

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Query Match	33.3%	Score 27.6	DB 3	length 4745
Best Local Similarity	45.9%	Pred. No. 3.1		
Matches 34	Conservative 11	Mismatches 29	Indels 0	Gaps 0

QY 3 UUCGAGUAAAGUGCAGCA CAUAAUUGUUGUGAUAUUGAAAAGUGUCAGGCCAUUAG 62  
 Db 1706 TTGTGTGGAGAACAGAAA CAGAAGATTGTCGCAATGCCAAGTACAGCCAACTTCT 1755

QY	63	UGCUGCCUCAA	76
		: : :	
Db	1766	TGTTGAATAAATA	1779

```

RESULT 3
US-09-949-016-11945
; Sequence 11945: Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11945
; LENGTH: 86439
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-11945

```

Query Match 33.0%; Score 27.4; DB 3; length 86439;  
 Best Local Similarity 43.5%; Pred. No. 11;  
 Matches 30; Conservative 13; Mismatches 26; Indels 0; Gaps 0

9 UAAAGUGCAGCACAUAAGUGGUGUGUGAUUUUAAAAGUCAGGCGCAUAUUGUCUGC 68  
49398 TACAGCATGCTGAACTGTATCTGGGTTCTGACATGGCGATTCCATGCTGTTCTCA 4945

```
QY      69 CUCAAAAAU 77
          :|||||:
Db      49458 TTCAAAAAT 49466
```

## RESULT 4

```

US-09-949-016-16990
; Sequence 16990, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq For Windows Version 4.0
; SEQ ID NO 16990
; LENGTH: 86440
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-16990

```

Query Match	33.0%	Score 27.4;	DB 3;	Length 86440;
Best Local Similarity	43.5%	Pred. No. 11;		
Matches 30, Conservative	13;	Mismatches 26;	Indels 0;	Gaps 0;

49398 TACAGCAGATGCTGAACCTGTAATCTGGGTTCTGAACATGGGCAATTCACATCTGTTCTCA 49455

```
QY      69 CUCAAAAT 77
          :|||||:
Db      49458 TTCAAATT 49466
```

```

RESULT 5
US-09-949-016-15584
? Sequence 15584, Application US/09949016
? Patent No. 6812339
? GENERAL INFORMATION:
? APPLICANT: VENTER, J. Craig et al.
? TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
? TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
? FILE REFERENCE: CL001307
? CURRENT APPLICATION NUMBER: US/09/949,016
? CURRENT FILING DATE: 2000-04-14
? PRIOR APPLICATION NUMBER: 60/241,755
? PRIOR FILING DATE: 2000-10-20
? PRIOR APPLICATION NUMBER: 60/237,768
? PRIOR FILING DATE: 2000-10-03
? PRIOR APPLICATION NUMBER: 60/231,498
? PRIOR FILING DATE: 2000-03-08
? NUMBER OF SEQ ID NOS: 207012
? SOFTWARE: FastSeq for Windows Version 4.0
? SEQ ID NO 15584
? LENGTH: 194915
? TYPE: DNA
? ORGANISM: Human
? FEATURE:
? NAME/KEY: misc_feature
? LOCATION: (1)..(194915)
? OTHER INFORMATION: n = A,T,C or G
US-09-949-016-15584

```

Query March	33.0%	Score 27.4;	DB 3;	Length 194915;
Best Local Similarity	41.6%	Pred. No. 15;		
Matches 32;	Conservative 14;	Mismatches 31;	Indels 0;	Gaps 0.

oy 3 JTTGGAGGAAAAGACAGACACAAUAAUGGUGUUGAAAAGUGGAGGCCAAUAAU 62  
 Db 5285 TTGATGATAAGATTAAAGCATAAATAATTATTGTACTATTGGCAGAGCAAAACTCTTTC 5344

QY 63 UGUCGCCUCAAUAUAC 79  
Db 5345 AGTCGCTCACTATCC 5361

## RESULT 6

US-09-614-221A-280  
; Sequence 280, Application US/09614221A  
; Patent No. 6723837  
; GENERAL INFORMATION:  
; APPLICANT: Karunanandaa, Balasubramanian  
; APPLICANT: Yu, Jaehyuk  
; APPLICANT: Kishore, Ganesh M.  
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED  
; TITLE OF INVENTION: WITH STEROL SYNTHESIS AND METABOLISM  
; FILE REFERENCE: 16516 075  
; CURRENT APPLICATION NUMBER: US/09/614,221A  
; PRIOR FILING DATE: 2000-07-12  
; PRIOR APPLICATION NUMBER: US 60/142,981  
; NUMBER OF SEQ ID NOS: 626  
; SEQ ID NO 280  
; LENGTH: 3396  
; TYPE: DNA  
; ORGANISM: Saccharomyces cerevisiae  
US-09-614-221A-280

Query Match 32.5%; Score 27; DB 3; Length 3396;  
Best Local Similarity 40.3%; Pred. No. 4.6;  
Matches 27; Conservative 15; Mismatches 25; Indels 0; Gaps 0;

QY 13 GUACAGACAUAAUGUUGAUUUUGAAAGUGACGACCAUAUUGUGCCUCA 72  
Db 2173 GTCACAAAAAAATTGTAATGATTTGAAATACCTCAGAAAGTTCTTATGTTCAACA 2232

QY 73 AAAAUAC 79  
Db 2233 GATGTAC 2239

## RESULT 7

US-09-487-558B-71  
; Sequence 71, Application US/09487558B  
; Patent No. 6949356  
; GENERAL INFORMATION:  
; APPLICANT: Bueby, Robert  
; APPLICANT: Cali, Brian  
; APPLICANT: Hecht, Peter  
; APPLICANT: Holtzman, Doug  
; APPLICANT: Madden, Kevin  
; APPLICANT: Maxon, Mary  
; APPLICANT: Milne, Todd  
; APPLICANT: No. 6949356man, Thea  
; APPLICANT: Royer, John  
; APPLICANT: Salama, Sofie  
; APPLICANT: Sherman, Amir  
; APPLICANT: Silva, Jeff  
; APPLICANT: Summers, Eric  
; TITLE OF INVENTION: Methods for Improving Secondary Metabolite Production in Fungi  
; FILE REFERENCE: 109272.130  
; CURRENT APPLICATION NUMBER: US/09/487,558B  
; PRIOR FILING DATE: 2000-01-19  
; PRIOR APPLICATION NUMBER: US 60/487,558  
; NUMBER OF SEQ ID NOS: 446  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 71  
; LENGTH: 3396  
; TYPE: DNA  
; ORGANISM: Saccharomyces cerevisiae  
US-09-487-558B-71

Query Match 32.5%; Score 27; DB 3; Length 3396;  
Best Local Similarity 40.3%; Pred. No. 4.6;  
Matches 27; Conservative 15; Mismatches 25; Indels 0; Gaps 0;

QY 13 GUACAGACAUAAUGUUGAUUUUGAAAGUGACGACCAUAUUGUGCCUCA 72  
Db 2173 GTCACAAAAAAATTGTAATGATTTGAAATACCTCAGAAAGTTCTTATGTTCAACA 2232

QY 73 AAAAUAC 79  
Db 2233 GATGTAC 2239

## RESULT 8

US-09-949-002-814  
; Sequence 814, Application US/09949002  
; Patent No. 6900016  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION  
; FILE REFERENCE: CL000790  
; CURRENT APPLICATION NUMBER: US/09/949,002  
; PRIOR FILING DATE: 2000-01-28  
; PRIOR APPLICATION NUMBER: 60/231,401  
; NUMBER OF SEQ ID NOS: 10823  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 814  
; LENGTH: 13614  
; TYPE: DNA  
; ORGANISM: Human  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (1)..(13614)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-949-002-814

Query Match 32.3%; Score 26.8; DB 3; Length 13614;  
Best Local Similarity 44.3%; Pred. No. 9.1;  
Matches 31; Conservative 12; Mismatches 27; Indels 0; Gaps 0;

QY 2 CUUGAGUAAAGUGACGACCAUAUUGUUGAAAGUGACGACCAUAU 61  
Db 3261 CTTCAGAGACTGATTTGTAATGATTTGAAATGAGGAGGCTGCCCTTGT 3320

QY 62 UGUCGCCUC 71  
Db 3321 GTTTTGCCC 3330

## RESULT 9

US-09-287-648-3922  
; Sequence 3922, Application US/09297648  
; Patent No. 6964868  
; GENERAL INFORMATION:  
; APPLICANT: Williams, Lewis T.  
; APPLICANT: Escobedo, Jaime  
; APPLICANT: Imity, Michael A.  
; APPLICANT: Garcia, Pablo Dominguez  
; APPLICANT: Studdard-Klinger, Julie  
; APPLICANT: Reinhard, Christoph  
; APPLICANT: Gleese, Klaus  
; APPLICANT: Randazzo, Filippo  
; APPLICANT: Kennedy, Giulia C.  
; APPLICANT: Pot, David  
; APPLICANT: Kaasan, Altaf  
; APPLICANT: Lamson, George  
; APPLICANT: Drmanac, Radoje  
; APPLICANT: Crkvenjakov, Radomir  
; APPLICANT: Dickson, Mark  
; APPLICANT: Drmanac, Snezana

APPLICANT: Labat, Ivan  
APPLICANT: Leshkowitz, Dena  
APPLICANT: Kita, David  
APPLICANT: Garcia, Veronica  
APPLICANT: Jones, William Lee  
APPLICANT: Stache-Crain, Birjic  
TITLE OF INVENTION: No. 6964868e1 Human Genes and Gene Expression  
TITLE OF INVENTION: Products II  
FILE REFERENCE: 2300-1481  
CURRENT APPLICATION NUMBER: US/09/297,648  
CURRENT FILING DATE: 2000-03-10  
PRIOR APPLICATION NUMBER: 60/072,910  
PRIOR FILING DATE: 1998-01-28  
PRIOR APPLICATION NUMBER: 60/075,954  
PRIOR FILING DATE: 1998-02-24  
PRIOR APPLICATION NUMBER: 60/080,666  
PRIOR FILING DATE: 1998-04-03  
PRIOR APPLICATION NUMBER: 60/080,515  
PRIOR FILING DATE: 1998-04-03  
PRIOR APPLICATION NUMBER: 60/080,114  
PRIOR FILING DATE: 1998-03-31  
PRIOR APPLICATION NUMBER: 60/105,214  
PRIOR FILING DATE: 1998-10-21  
NUMBER OF SEQ ID NOS: 5252  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 3922  
LENGTH: 745  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: (1)...(745)  
OTHER INFORMATION: n = A,T,C or G  
US-09-297-648-1922

Query Match 31.8%; Score 26.4; DB 4; Length 745;  
Best Local Similarity 47.5%; Pred. No. 4.4;  
Matches 29; Conservative 10; Mismatches 22; Indels 0; Gaps 0;

Qy 21 ACAUAGUGUUGGUAUUGGAGGCGCAUUGUGCGCCUAAAUAUACA 80  
Db 495 ACATATGTGACTGTTTGTGACAGTGCACAGCCACATTCGATGCTTGAGAGAGAGA 554

Qy 81 A 81  
Db 555 A 555

RESULT 10  
US-08-669-408B-9/c  
Sequence 9, Application US/08669408B  
Patent No. 6100055  
GENERAL INFORMATION:  
APPLICANT: GUSS, Bengt  
APPLICANT: JONSSON, Hans  
APPLICANT: LINDBERG, Martin  
APPLICANT: MUELLER, Hans-Peter  
APPLICANT: RANTAMAKI, Liisa K.  
TITLE OF INVENTION: METHOD AND MEANS FOR PRODUCING  
NUMBER OF SEQUENCES: 12  
TITLE OF INVENTION: PLASMAPROTEINASE INHIBITOR-BINDING PROTEINS  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Foley & Lardner  
STREET: 3000 K Street, N.W., Suite 500  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20007-5109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/669,408B  
FILING DATE: 03-JUL-1996  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: WO PCT/SE94/00826  
FILING DATE: 06-SEP-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: SE 9302855-3  
FILING DATE: 06-SEP-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: BENT, Stephen A.  
REGISTRATION NUMBER: 29,768  
REFERENCE/DOCKET NUMBER: 61743/102  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 672-5300  
TELEFAX: (202) 672-5399  
TELEX: 904136  
INFORMATION FOR SEQ ID NO: 9:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1555 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 288..1526  
FEATURE:  
NAME/KEY: mat\_peptide  
LOCATION: 288..1526  
US-08-669-408B-9

Query Match 31.8%; Score 26.4; DB 3; Length 1555;  
Best Local Similarity 35.5%; Pred. No. 5.8;  
Matches 27; Conservative 18; Mismatches 31; Indels 0; Gaps 0;

Qy 2 CUUGAGUAAGUAGCGACACAUAUGUUUGAGUAAAGUGAGCGCCUAU 61  
Db 891 CTTTAGTGTAGTGTGCGAGCTTTAAAGCTTTCTGTTAAACGTGACCTTCATTTT 832

Qy 62 GUGUGCGCUCUAAAUAU 77  
Db 831 GAGATTCTTCAAAAT 816

RESULT 11  
US-09-949-016-13209  
Sequence 13209, Application US/09949016  
Patent No. 6812339  
GENERAL INFORMATION:  
APPLICANT: VENTER, J. Craig et al.  
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
FILE REFERENCE: CI.001307  
CURRENT APPLICATION NUMBER: US/09/949,016  
CURRENT FILING DATE: 2000-04-14  
PRIOR APPLICATION NUMBER: 60/241,755  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/237,768  
PRIOR FILING DATE: 2000-10-03  
PRIOR APPLICATION NUMBER: 60/231,498  
PRIOR FILING DATE: 2000-09-08  
NUMBER OF SEQ ID NOS: 207012  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 13209  
LENGTH: 198942  
TYPE: DNA  
ORGANISM: Human  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: (1)...(198942)  
OTHER INFORMATION: n = A,T,C or G  
US-09-949-016-13209

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Query Match      31.8%; Score 26.4; DB 3; Length 198942;
Best Local Similarity 45.0%; Pred. No. 35;
Matches 27; Conservative 12; Mismatches 21; Indels 0; Gaps 0;

Qy      3 UUGAGUAAGUACGACGACUAUAGUUGUUGAUAUUGGAGGCGCCAUUUG 62
Db      141503 TTGTGTGACCCACGACGAGAAATGGCTTTGCAATTTAAAGGGGAAAGAAAGATG 141562

RESULT 12
US-09-949-016--50534/C
; Sequence 50534, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 50534
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016--50534

Query Match      31.3%; Score 26; DB 3; Length 601;
Best Local Similarity 43.3%; Pred. No. 5.8;
Matches 26; Conservative 13; Mismatches 21; Indels 0; Gaps 0;

Qy      3 UUGAGUAAGUACGACGACUAUAGUUGUUGAUAUUGGAGGCGCCAUUUG 62
Db      345 TTGTGTGACCCACGACGAGAAATGGCTTTGCAATTTAAAGGGGAAAGAAAGATG 286

RESULT 13
US-08-916-421B-1
; Sequence 1, Application US/08916421B
; Patent No. 6503729
; GENERAL INFORMATION:
; APPLICANT: Bult et al.
; TITLE OF INVENTION: Complete Genome Sequence of the Methanogenic Archaeon, Methanococ
; Patent No. 6503729
; FILE REFERENCE: jannaeschi
; CURRENT APPLICATION NUMBER: US/08/916,421B
; CURRENT FILING DATE: 1997-08-22
; PRIOR APPLICATION NUMBER: US 60/024,428
; PRIOR FILING DATE: 1996-08-22
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 1664976
; TYPE: DNA
; ORGANISM: Methanococcus jannaeschi
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (28222)..(28222)
; OTHER INFORMATION: n equals a, t, c, or g
; NAME/KEY: misc_feature
; LOCATION: (28257)..(28258)
; OTHER INFORMATION: n equals a, t, c, or g
; NAME/KEY: misc_feature
; LOCATION: (84773)..(84773)
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Best local similarity 39.3%; Pred. No. 1.2e+02;
Matches 24; Conservative 15; Mismatches 22; Indels 0; Gaps 0;

QY      22  CAATAAGCGUUUGGAGUUNUUGAAAGUGCAGGCCAUNUUGUGCGGCCUCAAATAAACAA 81
Db       842845  CAATAAGTAGTACTGAGATTTCATTACTTGACGCCCTTATTGTCCAACTAAGTCGTCAA 842904

QY      82  G 82
Db       842905  G 842905

RESULT 14
US-09-692-570-1
? Sequence 1, Application US/09692570
? Patent No. 6797466
? GENERAL INFORMATION:
? APPLICANT: Bult et al.
? TITLE OF INVENTION: Complete Genome Sequence of the Methanogenic Archaeon, Methanococcus
? Patent No. 6797466
? TITLE OF INVENTION: jannaschii
? FILE REFERENCE: PB275C1
? CURRENT APPLICATION NUMBER: US/09/692,570
? CURRENT FILING DATE: 2003-01-14
? PRIOR APPLICATION NUMBER: US 60/024,428
? PRIOR FILING DATE: 1996-08-22
? PRIOR APPLICATION NUMBER: US 08/916,421
? PRIOR FILING DATE: 1997-08-22
? NUMBER OF SEQ ID NOS: 20
? SOFTWARE: PatentIn version 3.1
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DB 842845 CATATAGTACTGATTTTCATTACTTGACGCCCTTATTGTCCCACTAAGTCGTCAA 842904

QY 82 G 82

DB 842905 G 842905

## RESULT 15

US-09-949-016-30704  
; Sequence 30704, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: C1001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 30704  
; LENGTH: 601  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-30704

Query Match 30.8%; Score 25.6; DB 3; Length 601;

Best Local Similarity 52.1%; Pred. No. 8.2; Mismatches 14; Indels 0; Gaps 0;

Matches 25; Conservative 9; Mismatches 14; Indels 0; Gaps 0;

QY 11 AAGUAGCAGCACAUUAUGUUUGAUAUUUGAAAAGUGCAGGCCAU 58

DB 203 AAAGAAACAGCTCATTCATTCGAAATGTTTGAAGATGACGCTCTT 250

Search completed: November 1, 2006, 22:24:29  
Job time : 154.867 secs

GenCore version 5.1.9  
Copyright (c) 1993 - 2006 Bioacceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: November 1, 2006, 22:20:01 ; Search time 1989.63 Seconds  
(without alignments)  
512.595 Million cell updates/sec

Title: US-10-706-798-1  
Perfect score: 83  
Sequence: 1 ccuugaguuagaaagacg.....gcugcucaaaauacaag 83

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 18892170 seqs, 6143817638 residues

Total number of hits satisfying chosen parameters: 37784340

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications NA Main:

- 1: /EMC\_Celerra\_SIDS3/prodata/2/pubpna/US07\_PUBCOMB.seq:\*
- 2: /EMC\_Celerra\_SIDS3/prodata/2/pubpna/US08\_PUBCOMB.seq:\*
- 3: /EMC\_Celerra\_SIDS3/prodata/2/pubpna/US09A\_PUBCOMB.seq:\*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	83	100.0	83	8	US-10-706-798-1
2	83	100.0	83	10	US-10-490-955-248
3	83	100.0	83	10	US-10-490-955-305
4	83	100.0	83	15	US-11-100-897-72
5	83	100.0	83	16	US-11-230-992-1
6	83	100.0	310	10	US-10-909-125-906
7	82	98.8	110	10	US-10-909-125-128
8	80	96.4	110	10	US-10-909-125-165
9	61.8	74.5	70	10	US-10-909-125-1316
10	33.4	40.2	83	8	US-10-706-798-1
11	33.4	40.2	83	10	US-10-490-955-248
12	33.4	40.2	83	10	US-10-490-955-305
13	33.4	40.2	83	15	US-11-100-897-72
14	33.4	40.2	83	16	US-11-230-992-1
15	33.4	40.2	310	10	US-10-909-125-906
16	32.4	39.0	110	10	US-10-909-125-128
17	31	37.3	483	4	US-09-925-065A-615810

C 18	31	37.3	483	5	US-09-925-065A-615810	Sequence 615810,
C 19	30.4	36.6	110	10	US-10-909-125-165	Sequence 165, App
C 20	28.4	34.2	487	6	US-10-027-632-56562	Sequence 56562, A
C 21	28.4	34.2	487	6	US-10-027-632-316173	Sequence 316173,
C 22	28.4	34.2	487	7	US-10-027-632-56562	Sequence 56562, A
C 23	28.4	34.2	487	7	US-10-027-632-316173	Sequence 316173,
C 24	28.4	34.2	491	6	US-10-027-632-3485	Sequence 3485, Ap
C 25	28.4	34.2	491	7	US-10-027-632-3485	Sequence 3485, Ap
C 26	28	33.7	848	6	US-10-027-632-168106	Sequence 168106,
C 27	28	33.7	848	6	US-10-027-632-168107	Sequence 168107,
C 28	28	33.7	848	6	US-10-027-632-168108	Sequence 168108,
C 29	28	33.7	848	6	US-10-027-632-168109	Sequence 168109,
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C 31	28	33.7	848	7	US-10-027-632-168107	Sequence 168107,
C 32	28	33.7	848	7	US-10-027-632-168108	Sequence 168108,
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C 34	28	33.7	1502	8	US-10-437-663-75782	Sequence 75782, A
C 35	27.8	33.5	617	4	US-09-925-065A-117246	Sequence 117246,
C 36	27.8	33.5	617	5	US-09-925-065A-117246	Sequence 117246,
C 37	27.8	33.5	623	12	US-10-301-480-216036	Sequence 216036,
C 38	27.8	33.5	623	12	US-10-301-480-829445	Sequence 829445,
C 39	27.8	33.5	942	4	US-09-925-065A-283726	Sequence 283726,
C 40	27.8	33.5	942	5	US-09-925-065A-139180	Sequence 139180,
C 41	27.6	33.3	312	9	US-10-425-015-139180	Sequence 139180,
C 42	27.6	33.3	4745	8	US-10-607-095-19	Sequence 19, Appl
C 43	27.4	33.0	267	8	US-10-282-122A-11092	Sequence 11092, A
C 44	27.4	33.0	422	12	US-10-301-480-14427	Sequence 14427, A
C 45	27.4	33.0	422	12	US-10-301-480-627836	Sequence 627836,

# ALIGNMENTS

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US-10-706-798-1
; Sequence 1, Application US/10706798
; Publication No. US20040152112A1
; GENERAL INFORMATION:
; APPLICANT: Croce, Carlo M.
; TITLE OF INVENTION: Compositions and Methods for Cancer
; TITLE OF INVENTION: Diagnosis and Therapy
; FILE REFERENCE: 08321-0126US1
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: US/10/706,798
; PRIOR FILING DATE: 2002-11-13
; PRIOR APPLICATION NUMBER: 60/425,864
; PRIOR FILING DATE: 2003-05-09
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 83
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-706-798-1

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Matches 83; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db      1 CCUUGAGUAAUAGACACAUAAUGGUGUUGUUGAAAGUGACGACCAUAV 60
QY      61 UGUGCTUCCTCCCAAAAUACAAG 83
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RESULT 2
US-10-490-955-248
; Sequence 248, Application US/10490955

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Publication No. US20050059005A1
GENERAL INFORMATION:
APPLICANT: Tuschl, Thomas
APPLICANT: Lagos-Quintana, Mariana
APPLICANT: Lendeckel, Winfried
APPLICANT: Meyer, Jutta
APPLICANT: Rahhut, Reinhard
TITLE OF INVENTION: MicroRNA Molecules
FILE REFERENCE: 2923-613
CURRENT APPLICATION NUMBER: US/10/490,955
CURRENT FILING DATE: 2004-03-29
PRIOR APPLICATION NUMBER: PCT/EP02/10881
PRIOR FILING DATE: 2002-09-27
PRIOR APPLICATION NUMBER: EP 02 016 772.2
PRIOR FILING DATE: 2002-07-26
PRIOR APPLICATION NUMBER: EP 02 006 712.0
PRIOR FILING DATE: 2002-03-22
PRIOR APPLICATION NUMBER: EP 01 123 453.1
PRIOR FILING DATE: 2001-09-28
NUMBER OF SEQ ID NOS: 562
SOFTWARE: PatentIn version 3.2
SEQ ID NO 248
LENGTH: 83
TYPE: RNA
ORGANISM: Homo sapiens
US-10-490-955-248
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Query Match 100.0%; Score 83; DB 10; Length 83;
Best Local Similarity 100.0%; Pred. No. 3,3e-19;
Matches 83; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 61 UGUGCUCGCUCAAAAUAUACAAG 83
DB 61 UGUGCUCGCUCAAAAUAUACAAG 83
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US-10-490-955-305
Sequence 305, Application US/10490955
Publication No. US20050059005A1
GENERAL INFORMATION:
APPLICANT: Tuschl, Thomas
APPLICANT: Lagos-Quintana, Mariana
APPLICANT: Lendeckel, Winfried
APPLICANT: Meyer, Jutta
APPLICANT: Rahhut, Reinhard
TITLE OF INVENTION: MicroRNA Molecules
FILE REFERENCE: 2923-613
CURRENT APPLICATION NUMBER: US/10/490,955
CURRENT FILING DATE: 2004-03-29
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PRIOR FILING DATE: 2002-09-27
PRIOR APPLICATION NUMBER: EP 02 016 772.2
PRIOR FILING DATE: 2002-07-26
PRIOR APPLICATION NUMBER: EP 02 006 712.0
PRIOR FILING DATE: 2002-03-22
PRIOR APPLICATION NUMBER: EP 01 123 453.1
PRIOR FILING DATE: 2001-09-28
NUMBER OF SEQ ID NOS: 562
SOFTWARE: PatentIn version 3.2
SEQ ID NO 305
LENGTH: 83
TYPE: RNA
ORGANISM: Unknown
FEATURE:
OTHER INFORMATION: D. melanogaster or H. sapiens or M. musculus or C. elegans or
US-10-490-955-305
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Query Match 100.0%; Score 83; DB 10; Length 83;
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DB 61 UGUGCUCGCUCAAAAUAUACAAG 83
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US-11-100-897-72
Sequence 72, Application US/11100897
Publication No. US20050272075A1
GENERAL INFORMATION:
APPLICANT: Jacobsen, Nana
APPLICANT: Kongsbak, Lars
APPLICANT: Kauppinen, Sakari
APPLICANT: Echwald, Soren Morgensthaler
APPLICANT: Mouritzen, Peter
APPLICANT: Nielsen, Peter Stein
APPLICANT: Nethoim, Mikkel
TITLE OF INVENTION: NOVEL METHODS FOR QUANTIFICATION OF MICRORNAs AND SMALL
FILE REFERENCE: 50287/013004
CURRENT APPLICATION NUMBER: US/11/100,897
CURRENT FILING DATE: 2005-04-07
PRIOR APPLICATION NUMBER: 60/648,221
PRIOR FILING DATE: 2005-01-28
PRIOR APPLICATION NUMBER: 60/619,291
PRIOR FILING DATE: 2004-10-15
PRIOR APPLICATION NUMBER: 60/600,961
PRIOR FILING DATE: 2004-08-12
PRIOR APPLICATION NUMBER: 60/590,856
PRIOR FILING DATE: 2004-07-23
PRIOR APPLICATION NUMBER: 60/560,148
PRIOR FILING DATE: 2004-04-07
NUMBER OF SEQ ID NOS: 79
SOFTWARE: PatentIn version 3.3
SEQ ID NO 72
LENGTH: 83
TYPE: RNA
ORGANISM: Homo sapiens
US-11-100-897-72
```

```
Query Match 100.0%; Score 83; DB 15; Length 83;
Best Local Similarity 100.0%; Pred. No. 3,3e-19;
Matches 83; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 CCUGGAGUAAAGUAGCAGCAUAUGGUGGAGUUUUUAGAAAGUGCAGGCCCAU 60
DB 1 CCUGGAGUAAAGUAGCAGCAUAUAUGGUGGAGUUUUUAGAAAGUGCAGGCCAU 60
QY 61 UGUGCUCGCUCAAAAUAUACAAG 83
DB 61 UGUGCUCGCUCAAAAUAUACAAG 83
```

```
RESULT 5
US-11-230-992-1
Sequence 1, Application US/11230992
Publication No. US20060073505A1
GENERAL INFORMATION:
APPLICANT: Richard H. Grifley
APPLICANT: Ravi Jain
TITLE OF INVENTION: OLIGOMERIC COMPOUNDS EFFECTING
FILE REFERENCE: CORE0041US
CURRENT APPLICATION NUMBER: US/11/230,992
CURRENT FILING DATE: 2005-09-20
```

```

; PRIOR APPLICATION NUMBER: 60/612,059
; PRIOR FILING DATE: 2004-09-21
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 83
; TYPE: RNA
; ORGANISM: H. Sapiens
US-11-230-992-1

Query Match      100.0%; Score 83; DB 16; Length 83;
Best Local Similarity 100.0%; Pred. No. 3.3e-19;
Matches 83; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCUGGAGUAAAGUAGCAGCAUAUAGUUGUGAUAUUGAAAGGUGCAGGCCAUAU 60
    |||
Db 1 CCUGGAGUAAAGUAGCAGCAUAUAGUUGUGAUAUUGAAAGGUGCAGGCCAUAU 60

Qy 61 UGUGCUGCCUCAAUAUACAAG 83
    |||
Db 61 UGUGCUGCCUCAAUAUACAAG 83

RESULT 6
US-10-909-125-906
; Sequence 906, Application US/10909125
; Publication No. US20050261218A1
; GENERAL INFORMATION:
; APPLICANT: Esau, Christine
; APPLICANT: Lollio, Bridget
; APPLICANT: Bennett, C. Frank
; APPLICANT: Preiser, Susan M.
; APPLICANT: Griffey, Richard H.
; APPLICANT: Baker, Brenda F.
; APPLICANT: Vickers, Timothy
; APPLICANT: Marcussen, Eric G.
; APPLICANT: Koller, Erich
; APPLICANT: Swayze, Eric
; APPLICANT: Jain, Ravi
; APPLICANT: Bhat, Balkrishen
; APPLICANT: Peralta, Bigen
; TITLE OF INVENTION: Oligomeric Compounds And Compositions For Use In Modulation
; FILE REFERENCE: ISIS0080-100 (CORE0016US)
; CURRENT APPLICATION NUMBER: US/10/909,125
; PRIOR FILING DATE: 2004-07-30
; PRIOR APPLICATION NUMBER: US 60/492,056
; PRIOR FILING DATE: 2003-07-31
; PRIOR APPLICATION NUMBER: US 60/516,303
; PRIOR FILING DATE: 2003-10-31
; PRIOR APPLICATION NUMBER: US 60/531,596
; PRIOR FILING DATE: 2003-12-19
; PRIOR APPLICATION NUMBER: US 60/562,417
; PRIOR FILING DATE: 2004-04-14
; NUMBER OF SEQ ID NOS: 2184
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 906
; LENGTH: 310
; TYPE: DNA
; ORGANISM: H. sapien
US-10-909-125-906

Query Match      100.0%; Score 83; DB 10; Length 310;
Best Local Similarity 73.5%; Pred. No. 5.1e-19;
Matches 61; Conservative 22; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCUGGAGUAAAGUAGCAGCAUAUAGUUGUGAUAUUGAAAGGUGCAGGCCAUAU 60
    |||
Db 131 CCTTGAGTAAGTAGACGACATATGTTTGGAATTTGAAAGGTGACGCCATAT 190

Qy 61 UGUGCUGCCUCAAUAUACAAG 83
    |||
Db 191 TGTGTGCTCTCAAAATACAAAG 213
```

```

RESULT 7
US-10-909-125-128
; Sequence 128, Application US/10909125
; Publication No. US20050261218A1
; GENERAL INFORMATION:
; APPLICANT: Esau, Christine
; APPLICANT: Lollio, Bridget
; APPLICANT: Bennett, C. Frank
; APPLICANT: Preiser, Susan M.
; APPLICANT: Griffey, Richard H.
; APPLICANT: Baker, Brenda F.
; APPLICANT: Vickers, Timothy
; APPLICANT: Marcussen, Eric G.
; APPLICANT: Koller, Erich
; APPLICANT: Swayze, Eric
; APPLICANT: Jain, Ravi
; APPLICANT: Bhat, Balkrishen
; APPLICANT: Peralta, Bigen
; TITLE OF INVENTION: Oligomeric Compounds And Compositions For Use In Modulation
; FILE REFERENCE: ISIS0080-100 (CORE0016US)
; CURRENT APPLICATION NUMBER: US/10/909,125
; PRIOR FILING DATE: 2004-07-30
; PRIOR APPLICATION NUMBER: US 60/492,056
; PRIOR FILING DATE: 2003-07-31
; PRIOR APPLICATION NUMBER: US 60/516,303
; PRIOR FILING DATE: 2003-10-31
; PRIOR APPLICATION NUMBER: US 60/531,596
; PRIOR FILING DATE: 2003-12-19
; PRIOR APPLICATION NUMBER: US 60/562,417
; PRIOR FILING DATE: 2004-04-14
; NUMBER OF SEQ ID NOS: 2184
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 128
; LENGTH: 110
; TYPE: RNA
; ORGANISM: H. sapiens
US-10-909-125-128

Query Match      98.8%; Score 82; DB 10; Length 110;
Best Local Similarity 100.0%; Pred. No. 8.3e-19;
Matches 82; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCUGGAGUAAAGUAGCAGCAUAUAGUUGUGAUAUUGAAAGGUGCAGGCCAUAU 60
    |||
Db 29 CCUGGAGUAAAGUAGCAGCAUAUAGUUGUGAUAUUGAAAGGUGCAGGCCAUAU 88

Qy 61 UGUGCUGCCUCAAUAUACAAG 82
    |||
Db 89 UGUGCUGCCUCAAUAUACAAG 110

RESULT 8
US-10-909-125-165
; Sequence 165, Application US/10909125
; Publication No. US20050261218A1
; GENERAL INFORMATION:
; APPLICANT: Esau, Christine
; APPLICANT: Lollio, Bridget
; APPLICANT: Bennett, C. Frank
; APPLICANT: Preiser, Susan M.
; APPLICANT: Griffey, Richard H.
; APPLICANT: Baker, Brenda F.
; APPLICANT: Vickers, Timothy
; APPLICANT: Marcussen, Eric G.
; APPLICANT: Koller, Erich
; APPLICANT: Swayze, Eric
; APPLICANT: Jain, Ravi
; APPLICANT: Bhat, Balkrishen
; APPLICANT: Peralta, Bigen
; TITLE OF INVENTION: Oligomeric Compounds And Compositions For Use In Modulation
```

TITLE OF INVENTION: Of Small Non-Coding RNAs  
FILE REFERENCE: ISIS0080-100 (CORE0016US)  
CURRENT APPLICATION NUMBER: US/10/909,125  
CURRENT FILING DATE: 2004-07-30  
PRIOR APPLICATION NUMBER: US 60/492,056  
PRIOR FILING DATE: 2003-07-31  
PRIOR APPLICATION NUMBER: US 60/516,303  
PRIOR FILING DATE: 2003-10-31  
PRIOR APPLICATION NUMBER: US 60/531,596  
PRIOR FILING DATE: 2003-12-19  
PRIOR APPLICATION NUMBER: US 60/562,417  
PRIOR FILING DATE: 2004-04-14  
NUMBER OF SEQ ID NOS: 2184  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO: 165  
LENGTH: 110  
TYPE: RNA  
ORGANISM: H. sapiens  
US-10-909-125-165

Query Match 96.4%; Score 80; DB 10; Length 110;  
Best Local Similarity 100.0%; Pred. No. 4.3e-18; Mismatches 0; Indels 0; Gaps 0;  
Matches 80; Conservative 0;

Oy 1 CCUUGAGUAAAGUACGACACAUAAUGUUUGUAGAUUUUGAAAGGUGGAGGCCAUU 60  
Db 31 CCUUGAGUAAAGUACGACACAUAAUGUUUGUAGAUUUUGAAAGGUGGAGGCCAUU 90  
Oy 61 UGUGCGCCUCAAUAUACA 80  
Db 91 UGUGCGCCUCAAUAUACA 110

RESULT 9  
US-10-909-125-1316

Sequence 1316, Application US/10909125  
Publication No. US20050261218A1  
GENERAL INFORMATION:  
APPLICANT: Beau, Christine  
APPLICANT: Lollo, Bridget  
APPLICANT: Bennett, C. Frank  
APPLICANT: Freiler, Susan M.  
APPLICANT: Griffee, Richard H.  
APPLICANT: Baker, Brenda F.  
APPLICANT: Vickers, Timothy  
APPLICANT: Marcuseon, Eric G.  
APPLICANT: Koller, Erich  
APPLICANT: Swayze, Eric  
APPLICANT: Jain, Ravi  
APPLICANT: Bhat, Balakrishen  
APPLICANT: Peralta, Bigen  
TITLE OF INVENTION: Oligomeric Compounds and Compositions For Use In Modulation  
FILE REFERENCE: ISIS0080-100 (CORE0016US)  
CURRENT APPLICATION NUMBER: US/10/909,125  
CURRENT FILING DATE: 2004-07-30  
PRIOR APPLICATION NUMBER: US 60/492,056  
PRIOR FILING DATE: 2003-07-31  
PRIOR APPLICATION NUMBER: US 60/516,303  
PRIOR FILING DATE: 2003-10-31  
PRIOR APPLICATION NUMBER: US 60/531,596  
PRIOR FILING DATE: 2003-12-19  
PRIOR APPLICATION NUMBER: US 60/562,417  
PRIOR FILING DATE: 2004-04-14  
NUMBER OF SEQ ID NOS: 2184  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO: 1316  
LENGTH: 70  
TYPE: RNA  
ORGANISM: Mouse  
US-10-909-125-1316

Query Match 74.5%; Score 61.8; DB 10; Length 70;

Best Local Similarity 96.9%; Pred. No. 1.1e-11;  
Matches 63; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Oy 11 AAGUAGCAGCAGUAAUGUUUGUAGAUUUUGAAAGGUGGAGGCCAUUUGUGUGCCU 70  
Db 1 AAGUAGCAGCAGUAAUGUUUGUAGAUUUUGAAAGGUGGAGGCCAUUUGUGUGCCU 60  
Oy 71 CAAA 75  
Db 61 CAAA 65

RESULT 10  
US-10-706-798-1/c  
Sequence 1, Application US/10706798  
Publication No. US20040152112A1  
GENERAL INFORMATION:  
APPLICANT: Croce, Carlo M.  
APPLICANT: Callin, George A.  
TITLE OF INVENTION: Compositions and Methods for Cancer  
FILE REFERENCE: 08321-0126US1  
CURRENT APPLICATION NUMBER: US/10/706,798  
CURRENT FILING DATE: 2003-11-12  
PRIOR APPLICATION NUMBER: 60/425,864  
PRIOR FILING DATE: 2002-11-13  
PRIOR APPLICATION NUMBER: 60/469,464  
PRIOR FILING DATE: 2003-05-09  
NUMBER OF SEQ ID NOS: 54  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO: 1  
LENGTH: 83  
TYPE: RNA  
ORGANISM: Homo sapiens  
US-10-706-798-1

Query Match 40.2%; Score 33.4; DB 8; Length 83;  
Best Local Similarity 45.8%; Pred. No. 0.15; Mismatches 31; Indels 0; Gaps 0;  
Matches 38; Conservative 14;

Oy 1 CCUUGAGUAAAGUACGACACAUAAUGUUUGUAGAUUUUGAAAGGUGGAGGCCAUU 60  
Db 83 CCUGUATTTTGTGGAGGACACATATGCGCTGACCTTTCAAAATCCCAACCATTA 24  
Oy 61 UGUGCGCCUCAAUAUACAAG 83  
Db 23 TGTCCTGCTACTTACTCCAAAG 1

RESULT 11  
US-10-490-955-248/c

Sequence 248, Application US/10490955  
Publication No. US20050059005A1  
GENERAL INFORMATION:  
APPLICANT: Tuschl, Thomas  
APPLICANT: Lagos-Quintana, Mariana  
APPLICANT: Lendeckel, Winfried  
APPLICANT: Meyer, Jutta  
APPLICANT: Raubut, Reinhard  
TITLE OF INVENTION: MicroRNA Molecules  
FILE REFERENCE: 2923-613  
CURRENT APPLICATION NUMBER: US/10/490,955  
CURRENT FILING DATE: 2004-03-29  
PRIOR APPLICATION NUMBER: PCT/EP02/10881  
PRIOR FILING DATE: 2002-09-27  
PRIOR APPLICATION NUMBER: EP 02 016 772.2  
PRIOR FILING DATE: 2002-07-26  
PRIOR APPLICATION NUMBER: EP 02 006 712.0  
PRIOR FILING DATE: 2002-03-22  
PRIOR APPLICATION NUMBER: EP 01 123 453.1  
PRIOR FILING DATE: 2001-09-28  
NUMBER OF SEQ ID NOS: 562  
SOFTWARE: PatentIn version 3.2

SEQ ID NO 248  
LENGTH: 83  
TYPE: RNA  
ORGANISM: Homo sapiens  
US-10-490-955-248

Query Match 40.2%; Score 33.4; DB 10; Length 83;  
Best Local Similarity 45.8%; Pred. No. 0.15;  
Matches 38; Conservative 14; Mismatches 31; Indels 0; Gaps 0;

QY 1 CCUGAGUAAAGGACGACAUAGGCUUUGGAAUUGGAGGCGCAUUAU 60  
DB 83 CCTGTATTTTGGAGGACGACATATGGCTGACCTTTTCAAAATCCAAACCATTA 24

QY 61 UGUGCUGCCUCAAUAUACAAG 83  
DB 23 TGTGCTGCTACTTACTCCAAAG 1

## RESULT 12

US-10-490-955-305/c  
Sequence 305, Application US/10490955  
Publication No. US2005005905A1  
GENERAL INFORMATION:  
APPLICANT: Tuschl, Thomas  
APPLICANT: Lagos-Quintana, Mariana  
APPLICANT: Lendeckel, Winfried  
APPLICANT: Meyer, Jutta  
APPLICANT: Rauhut, Reinhard  
TITLE OF INVENTION: MicroRNA Molecules  
FILE REFERENCE: 2923-613  
CURRENT APPLICATION NUMBER: US/10/490,955  
CURRENT FILING DATE: 2004-03-29  
PRIOR APPLICATION NUMBER: PCT/EP02/10881  
PRIOR FILING DATE: 2002-09-27  
PRIOR APPLICATION NUMBER: EP 02 016 772.2  
PRIOR FILING DATE: 2002-07-26  
PRIOR APPLICATION NUMBER: EP 02 006 712.0  
PRIOR FILING DATE: 2002-03-22  
PRIOR APPLICATION NUMBER: EP 01 123 453.1  
PRIOR FILING DATE: 2001-09-28  
NUMBER OF SEQ ID NOS: 562  
SOFTWARE: PatentIn version 3.2  
SEQ ID NO 305  
LENGTH: 83  
TYPE: RNA  
ORGANISM: Unknown  
FEATURE:  
OTHER INFORMATION: D. melanogaster or H. sapiens or M. musculus or C. elegans or  
OTHER INFORMATION: Hela cells  
US-10-490-955-305

Query Match 40.2%; Score 33.4; DB 10; Length 83;  
Best Local Similarity 45.8%; Pred. No. 0.15;  
Matches 38; Conservative 14; Mismatches 31; Indels 0; Gaps 0;

QY 1 CCUGAGUAAAGGACGACAUAGGCUUUGGAAUUGGAGGCGCAUUAU 60  
DB 83 CCTGTATTTTGGAGGACGACATATGGCTGACCTTTTCAAAATCCAAACCATTA 24

QY 61 UGUGCUGCCUCAAUAUACAAG 83  
DB 23 TGTGCTGCTACTTACTCCAAAG 1

## RESULT 13

US-11-100-897-72/c  
Sequence 72, Application US/11100897  
Publication No. US20050272075A1  
GENERAL INFORMATION:  
APPLICANT: Jacobsen, Nana  
APPLICANT: Kongsbak, Lars  
APPLICANT: Kauppinen, Sakari

APPLICANT: Echwald, Soren Mergenthaler  
APPLICANT: Mouritzen, Peter  
APPLICANT: Nielsen, Peter Stein  
APPLICANT: Norholm, Mikkel  
TITLE OF INVENTION: NOVEL METHODS FOR QUANTIFICATION OF MICRORNAs AND SMALL  
TITLE OF INVENTION: INTERFERING RNAs  
FILE REFERENCE: 50287/013004  
CURRENT APPLICATION NUMBER: US/11/100,897  
CURRENT FILING DATE: 2005-04-07  
PRIOR APPLICATION NUMBER: 60/648,221  
PRIOR FILING DATE: 2005-01-28  
PRIOR APPLICATION NUMBER: 60/619,291  
PRIOR FILING DATE: 2004-10-15  
PRIOR APPLICATION NUMBER: 60/600,961  
PRIOR FILING DATE: 2004-08-12  
PRIOR APPLICATION NUMBER: 60/590,856  
PRIOR FILING DATE: 2004-07-23  
PRIOR APPLICATION NUMBER: 60/560,148  
PRIOR FILING DATE: 2004-04-07  
NUMBER OF SEQ ID NOS: 79  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 72  
LENGTH: 83  
TYPE: RNA  
ORGANISM: Homo sapiens  
US-11-100-897-72

Query Match 40.2%; Score 33.4; DB 15; Length 83;  
Best Local Similarity 45.8%; Pred. No. 0.15;  
Matches 38; Conservative 14; Mismatches 31; Indels 0; Gaps 0;

QY 1 CCUGAGUAAAGGACGACAUAGGCUUUGGAAUUGGAGGCGCAUUAU 60  
DB 83 CCTGTATTTTGGAGGACGACATATGGCTGACCTTTTCAAAATCCAAACCATTA 24

QY 61 UGUGCUGCCUCAAUAUACAAG 83  
DB 23 TGTGCTGCTACTTACTCCAAAG 1

## RESULT 14

US-11-230-992-1/c  
Sequence 1, Application US/11230992  
Publication No. US20060073505A1  
GENERAL INFORMATION:  
APPLICANT: Richard H. Griffee  
APPLICANT: Ravi Jain  
TITLE OF INVENTION: OLIGOMERIC COMPOUNDS EFFECTING  
TITLE OF INVENTION: DROSHPA-MEDIATED CLEAVAGE  
FILE REFERENCE: CORE0041US  
CURRENT APPLICATION NUMBER: US/11/230,992  
CURRENT FILING DATE: 2005-09-20  
PRIOR APPLICATION NUMBER: 60/612,059  
PRIOR FILING DATE: 2004-09-21  
NUMBER OF SEQ ID NOS: 54  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 1  
LENGTH: 83  
TYPE: RNA  
ORGANISM: H. Sapiens  
US-11-230-992-1

Query Match 40.2%; Score 33.4; DB 16; Length 83;  
Best Local Similarity 45.8%; Pred. No. 0.15;  
Matches 38; Conservative 14; Mismatches 31; Indels 0; Gaps 0;

QY 1 CCUGAGUAAAGGACGACAUAGGCUUUGGAAUUGGAGGCGCAUUAU 60  
DB 83 CCTGTATTTTGGAGGACGACATATGGCTGACCTTTTCAAAATCCAAACCATTA 24

QY 61 UGUGCUGCCUCAAUAUACAAG 83  
DB 23 TGTGCTGCTACTTACTCCAAAG 1

RESULT 15  
US-10-909

US-10-909-125-906/c

; Sequence 906, Application US/10909125

Publication No. US20050261218A1

## GENERAL INFORMATION

APPLICANT: Esau, Christine

APPLICANT: Lollo, Bridget

APPLICANT: Bennett, C. Frank

APPLICANT: Freier, Susan M.

APPLICANT: Griffey, Richard H.

APPLICANT: Baker, Brenda F.

APPLICANT: Vickers, Timothy

APPLICANT: Marcussen, Eric G.

APPLICANT: Koller, Erich

APPLICANT: Swayze, Eric

APPLICANT: Jain, Ravi

APPLICANT: Bhat, Balkrishen

APPLICANT: Peralta, Eiden

**APPLICANT:** Feralta, Eigen

**TITLE OF INVENTION:** Oligomeric Compounds And Compositions For Use In Modulation

TITLE OF INVENTION: OF small Non-Coding RNAs

FILE REFERENCE: TSTS0080-100 (CORE0016US)

FILE REFERENCE: 15150080-100 (CO  
CURRENT APPLICATION NUMBER: IIS/11

CURRENT FILING DATE: 2004-07-30

PRIOR APPLICATION NUMBER: IIS 60/492-056

PRIOR APPLICATION NUMBER: US 60/492,056  
PRIOR FILING DATE: 2003-07-31

PRIOR FILING DATE: 2003-07-31  
PRIOR APPLICATION NUMBER: US 60/516 303

PRIOR APPLICATION NUMBER: US 60/516,303

PRIOR FILING DATE: 2003-10-31  
PRIOR APPLICATION NUMBER: IIS 60/E31 596

PRIOR APPLICATION NUMBER: US 60/531,596  
PRIOR FILING DATE 2003-12-10

PRIOR FILING DATE: 2003-12-19

PRIOR APPLICATION NUMBER: US 60/562,417

PRIOR FILING DATE: 2004-04-14

; NUMBER OF SEQ ID NOS: 2184

; SOFTWARE: FastSeq for Windows Version 4

; SEQ ID NO 906

LENGTH: 310

TYPE: DNA

Query match 40.2%; Score 33.4; DB 10; Length 310;

Best Local Similarity 45.8%; Pred. No. 0.23;

Matches 38; Conservative 14; Mismatches 31; Indels 0; Gaps 0;

```
Oy      1 CCUTGAGUGAAAGUACAGCA CAUAUUCGUUUUGUGAUUUUUCAAAGAUGCAGGCCAUAU   60
          ||::|| : | ||||||| ::|| :||| |||::
Db     213 CCTTGATATTTTTGAAGCAGCACATATGGCCCTGCACCCTTTTCAAAATTCACAACCATTA   154
```

QY 61 UGUGCUGCCUCAAAAUACAGG 83

[illegible]

Search completed: November 2, 2006, 02:46:34  
Job time : 1990.63 secs

Job time : 1990.63 secs





Db 61 TGTGCTGCTCAAAAATACAAAG 83

## RESULT 2

US-11-375-650-1  
; Sequence 1, Application US/11375650  
; Publication No. US20060165659A1  
; GENERAL INFORMATION:  
; APPLICANT: Croce, Carlo M.  
; APPLICANT: Calin, George A.  
; TITLE OF INVENTION: Compositions and Methods for Cancer  
; FILE REFERENCE: 08321-0126US1  
; CURRENT APPLICATION NUMBER: US/11/375,650  
; PRIOR FILING DATE: 2006-03-13  
; PRIOR APPLICATION NUMBER: US/10/706,798  
; PRIOR FILING DATE: 2003-11-12  
; PRIOR APPLICATION NUMBER: 60/425,864  
; PRIOR FILING DATE: 2002-11-13  
; PRIOR APPLICATION NUMBER: 60/469,464  
; PRIOR FILING DATE: 2003-05-09  
; NUMBER OF SEQ ID NOS: 54  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1  
; LENGTH: 83  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-375-650-1

Query Match 100.0%; Score 83; DB 9; Length 83;  
Best Local Similarity 100.0%; Pred. No. 1,2e-20;  
Matches 83; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCUGGAGUAAAGUAGCAGCAUAUUGUUGUUGAAGGUGAGGCCAUU 60  
Db 1 CCUGGAGUAAAGUAGCAGCAUAUUGUUGUUGAAGGUGAGGCCAUU 60  
Qy 61 UGUGGUGCCUCAAUAUACAAG 83  
Db 61 UGUGGUGCCUCAAUAUACAAG 83

## RESULT 3

US-11-266-748A-23474/C  
; Sequence 23474, Application US/11266748A  
; Publication No. US20060134663A1  
; GENERAL INFORMATION:  
; APPLICANT: Harkin, Paul  
; APPLICANT: Johnston, Patrick  
; APPLICANT: Mulligan, Karl  
; TITLE OF INVENTION: Transcription Microarray Technology and  
; FILE REFERENCE: 55815-0102 (319189)  
; CURRENT APPLICATION NUMBER: US/11/266,748A  
; PRIOR FILING DATE: 2005-11-03  
; PRIOR APPLICATION NUMBER: EP 04105479.2  
; PRIOR FILING DATE: 2004-11-03  
; PRIOR APPLICATION NUMBER: EP 04105482.6  
; PRIOR FILING DATE: 2004-11-03  
; PRIOR APPLICATION NUMBER: EP 04105483.4  
; PRIOR FILING DATE: 2004-11-03  
; PRIOR APPLICATION NUMBER: EP 04105507.0  
; PRIOR FILING DATE: 2004-11-03  
; PRIOR APPLICATION NUMBER: EP 04105485.9  
; PRIOR FILING DATE: 2004-11-03  
; PRIOR APPLICATION NUMBER: EP 04105484.2  
; PRIOR FILING DATE: 2004-11-03  
; PRIOR APPLICATION NUMBER: US 60/662,276  
; PRIOR FILING DATE: 2005-03-14  
; PRIOR APPLICATION NUMBER: US 60/700,293  
; PRIOR FILING DATE: 2005-07-18  
; NUMBER OF SEQ ID NOS: 483996

; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 23474  
; LENGTH: 347503  
; TYPE: DNA  
; ORGANISM: Homo Sapiens  
US-11-266-748A-23474

Query Match 100.0%; Score 83; DB 8; Length 347503;  
Best Local Similarity 73.5%; Pred. No. 2,4e-19;  
Matches 61; Conservative 22; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCUGGAGUAAAGUAGCAGCAUAUUGUUGUUGAAGGUGAGGCCAUU 60  
Db 52198 CTTGGAGTAAGTAGAGCAGCATTAATGTTTGATTTTGAAGGTGAGGCCATAT 52139  
Qy 61 UGUGGUGCCUCAAUAUACAAG 83  
Db 52138 TGTGCTGCTCAAAAATACAAAG 52116

## RESULT 4

US-11-194-055-32  
; Sequence 32, Application US/11194055  
; Publication No. US20060105360A1  
; GENERAL INFORMATION:  
; APPLICANT: Croce, Carlo M.  
; APPLICANT: Liu, Chang-Gong  
; APPLICANT: Calin, George, A.  
; APPLICANT: Cinzia, Sevigiani  
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF CANCERS WITH  
; TITLE OF INVENTION: MICRORNA LOCATED IN OR NEAR CANCER-ASSOCIATED CHROMOSOMAL  
; FILE REFERENCE: 3589.1018-008  
; CURRENT APPLICATION NUMBER: US/11/194,055  
; PRIOR FILING DATE: 2005-07-29  
; PRIOR APPLICATION NUMBER: PCT/US2005/004865  
; PRIOR FILING DATE: 2005-02-09  
; PRIOR APPLICATION NUMBER: 60/543,119  
; PRIOR FILING DATE: 2004-02-09  
; PRIOR APPLICATION NUMBER: 60/542,929  
; PRIOR FILING DATE: 2004-02-09  
; PRIOR APPLICATION NUMBER: 60/542,963  
; PRIOR FILING DATE: 2004-02-09  
; PRIOR APPLICATION NUMBER: 60/542,940  
; PRIOR FILING DATE: 2004-02-09  
; PRIOR APPLICATION NUMBER: 60/580,559  
; PRIOR FILING DATE: 2004-06-18  
; PRIOR APPLICATION NUMBER: 60/580,797  
; PRIOR FILING DATE: 2004-06-18  
; NUMBER OF SEQ ID NOS: 663  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 32  
; LENGTH: 108  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-11-194-055-32

Query Match 95.2%; Score 79; DB 8; Length 108;  
Best Local Similarity 72.2%; Pred. No. 3,6e-19;  
Matches 57; Conservative 22; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCUGGAGUAAAGUAGCAGCAUAUUGUUGUUGAAGGUGAGGCCAUU 60  
Db 30 CTTGGAGTAAGTAGAGCAGCATTAATGTTTGATTTTGAAGGTGAGGCCATAT 89  
Qy 61 UGUGGUGCCUCAAUAUACAAG 79  
Db 90 TGTGCTGCTCAAAAATAC 108

## RESULT 5

US-11-194-055-325  
; Sequence 325, Application US/11194055

```
; Publication NO. US20060105360A1
; GENERAL INFORMATION:
; APPLICANT: Croce, Carlo M.
; APPLICANT: Liu, Chang-Gong
; APPLICANT: Cinzia, George, A.
; APPLICANT: Cinzia, Sevgi
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF CANCERS WITH
; TITLE OF INVENTION: MICRORNA LOCATED IN OR NEAR CANCER-ASSOCIATED CHROMOSOMAL
; FILE REFERENCE: 3589.1018-008
; CURRENT APPLICATION NUMBER: US/11/194,055
; PRIOR FILING DATE: 2005-07-29
; PRIOR APPLICATION NUMBER: PCT/US2005/004865
; PRIOR FILING DATE: 2005-02-09
; PRIOR APPLICATION NUMBER: 60/543,119
; PRIOR FILING DATE: 2004-02-09
; PRIOR APPLICATION NUMBER: 60/542,929
; PRIOR FILING DATE: 2004-02-09
; PRIOR APPLICATION NUMBER: 60/542,963
; PRIOR FILING DATE: 2004-02-09
; PRIOR APPLICATION NUMBER: 60/542,940
; PRIOR FILING DATE: 2004-02-09
; PRIOR APPLICATION NUMBER: 60/580,959
; PRIOR FILING DATE: 2004-06-18
; PRIOR APPLICATION NUMBER: 60/580,797
; NUMBER OF SEQ ID NOS: 663
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 325
; LENGTH: 40
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: oligonucleotide probe
US-11-194-055-325

Query Match      48.2%; Score 40; DB 8; Length 40;
Best Local Similarity 67.5%; Pred. No. 3.9e-05;
Matches 27; Conservative 13; Mismatches 0; Indels 0; Gaps 0;

QY      1 CCUGAGUAAAGUAGCAGCAUAUAGUUGUGAGUUU 40
Db      1 CTTTGAGTATTTGAGGAGCAGCAATATGCTTGTGATTT 40

RESULT 6
US-11-194-055-326
; Sequence 326, Application US/11/194055
; Publication No. US20060105360A1
; GENERAL INFORMATION:
; APPLICANT: Croce, Carlo M.
; APPLICANT: Liu, Chang-Gong
; APPLICANT: Cinzia, George, A.
; APPLICANT: Cinzia, Sevgi
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF CANCERS WITH
; TITLE OF INVENTION: MICRORNA LOCATED IN OR NEAR CANCER-ASSOCIATED CHROMOSOMAL
; FILE REFERENCE: 3589.1018-008
; CURRENT APPLICATION NUMBER: US/11/194,055
; PRIOR FILING DATE: 2005-07-29
; PRIOR APPLICATION NUMBER: PCT/US2005/004865
; PRIOR FILING DATE: 2005-02-09
; PRIOR APPLICATION NUMBER: 60/543,119
; PRIOR FILING DATE: 2004-02-09
; PRIOR APPLICATION NUMBER: 60/542,929
; PRIOR FILING DATE: 2004-02-09
; PRIOR APPLICATION NUMBER: 60/542,963
; PRIOR FILING DATE: 2004-02-09
; PRIOR APPLICATION NUMBER: 60/542,940
; PRIOR FILING DATE: 2004-02-09
; PRIOR APPLICATION NUMBER: 60/580,959
; PRIOR FILING DATE: 2004-06-18
; PRIOR APPLICATION NUMBER: 60/580,797
; NUMBER OF SEQ ID NOS: 663
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 326
; LENGTH: 40
; TYPE: DNA
; ORGANISM: Homo sapiens
; OTHER INFORMATION: oligonucleotide probe
US-11-194-055-326
```

```
; PRIOR FILING DATE: 2004-06-18
; NUMBER OF SEQ ID NOS: 663
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 326
; LENGTH: 40
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: oligonucleotide probe
US-11-194-055-326

Query Match      48.2%; Score 40; DB 8; Length 40;
Best Local Similarity 65.0%; Pred. No. 3.9e-05;
Matches 26; Conservative 14; Mismatches 0; Indels 0; Gaps 0;

QY      30 UUGUGAGUUUUUAGAAAGUGCAGCCAUUAGUGCUGCC 69
Db      1 TTTGTGATTTTGAAGAGGAGCAGCAATATGCTGCCC 40

RESULT 7
US-11-194-055-33/c
; Sequence 33, Application US/11/194055
; Publication No. US20060105360A1
; GENERAL INFORMATION:
; APPLICANT: Croce, Carlo M.
; APPLICANT: Liu, Chang-Gong
; APPLICANT: Cinzia, George, A.
; APPLICANT: Cinzia, Sevgi
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF CANCERS WITH
; TITLE OF INVENTION: MICRORNA LOCATED IN OR NEAR CANCER-ASSOCIATED CHROMOSOMAL
; FILE REFERENCE: 3589.1018-008
; CURRENT APPLICATION NUMBER: US/11/194,055
; PRIOR FILING DATE: 2005-07-29
; PRIOR APPLICATION NUMBER: PCT/US2005/004865
; PRIOR FILING DATE: 2005-02-09
; PRIOR APPLICATION NUMBER: 60/543,119
; PRIOR FILING DATE: 2004-02-09
; PRIOR APPLICATION NUMBER: 60/542,929
; PRIOR FILING DATE: 2004-02-09
; PRIOR APPLICATION NUMBER: 60/542,963
; PRIOR FILING DATE: 2004-02-09
; PRIOR APPLICATION NUMBER: 60/542,940
; PRIOR FILING DATE: 2004-02-09
; PRIOR APPLICATION NUMBER: 60/580,959
; PRIOR FILING DATE: 2004-06-18
; PRIOR APPLICATION NUMBER: 60/580,797
; NUMBER OF SEQ ID NOS: 663
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 33
; LENGTH: 83
; TYPE: DNA
; ORGANISM: Homo sapiens
; OTHER INFORMATION: oligonucleotide probe
US-11-194-055-33

Query Match      40.2%; Score 33.4; DB 8; Length 83;
Best Local Similarity 45.8%; Pred. No. 0.013;
Matches 38; Conservative 14; Mismatches 31; Indels 0; Gaps 0;

QY      1 CCUGAGUAAAGUAGCAGCAUAUAGUUGUGAGUUUUGAAAGUGCAGCCCAU 60
Db      83 CTTGTATTTTGTAGGAGCAGCAATATGCTGCTGACCTTTTCAAAATCCAAACATTA 24

QY      61 UUGUGCUGCCUCAAUAUACAAG 83
Db      23 TGTGCTGCTACTTACTCAAG 1

RESULT 8
US-11-375-650-1/c
; Sequence 1, Application US/11/375650
```

```
; Publication No. US20060165659A1
; GENERAL INFORMATION:
; APPLICANT: Croce, Carlo M.
; APPLICANT: Callin, George A.
; TITLE OF INVENTION: Compositions and Methods for Cancer
; FILE REFERENCE: 08321-0126U01
; CURRENT APPLICATION NUMBER: US/11/375,650
; PRIOR FILING DATE: 2006-03-13
; PRIOR APPLICATION NUMBER: US/10/706,798
; PRIOR FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/425,864
; PRIOR FILING DATE: 2002-11-13
; PRIOR APPLICATION NUMBER: 60/469,464
; PRIOR FILING DATE: 2003-05-09
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 83
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-375-650-1
```

```
Query Match 40.2%; Score 33.4; DB 9; Length 83;
Best Local Similarity 45.8%; Pred. No. 0.013;
Matches 38; Conservative 14; Mismatches 31; Indels 0; Gaps 0;
```

```
OY 1 CCUGGAGUAAAGUAGCAUUAUGGUAUUGGUAAGGCGCAUUAU 60
DB 83 CTTGTATTTTGTGAGGACGACATATGCGCTTCAAAATCCAAACATTA 24
OY 61 UGUGCGCCUCAAUAUACAAG 83
DB 23 TGTGCTCTACTTACTCCAAG 1
```

```
RESULT 9
US-11-266-748A-23474
; Sequence 23474, Application US/11266748A
; Publication No. US20060134663A1
; GENERAL INFORMATION:
; APPLICANT: Hartkin, Paul
; APPLICANT: Johnston, Patrick
; APPLICANT: Mulligan, Karl
; TITLE OF INVENTION: Transcriptome Microarray Technology and
; FILE REFERENCE: 55815-0102 (319189)
; CURRENT APPLICATION NUMBER: US/11/266,748A
; PRIOR FILING DATE: 2005-11-03
; PRIOR APPLICATION NUMBER: EP 04105479.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105482.6
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105483.4
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105507.0
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105485.9
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105484.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: US 60/662,276
; PRIOR FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/700,293
; PRIOR FILING DATE: 2005-07-18
; NUMBER OF SEQ ID NOS: 48396
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 23474
; LENGTH: 347503
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-11-266-748A-23474
```

```
Query Match 40.2%; Score 33.4; DB 8; Length 347503;
Best Local Similarity 45.8%; Pred. No. 0.26;
Matches 38; Conservative 14; Mismatches 31; Indels 0; Gaps 0;
```

```
OY 1 CCUGGAGUAAAGUAGCAUUAUGGUAUUGGUAAGGCGCAUUAU 60
DB 52116 CTTGTATTTTGTGAGGACGACATATGCGCTTCAAAATCCAAACATTA 52175
OY 61 UGUGCGCCUCAAUAUACAAG 83
DB 52176 TGTGCTCTACTTACTCCAAG 52198
```

```
RESULT 10
US-11-194-055-32/c
; Sequence 32, Application US/11194055
; Publication No. US20060105360A1
; GENERAL INFORMATION:
; APPLICANT: Croce, Carlo M.
; APPLICANT: Liu, Chang-gong
; APPLICANT: Callin, George, A.
; APPLICANT: Cinzia, Seviagnani
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF CANCERS WITH
; TITLE OF INVENTION: MICRORNA LOCATED IN OR NEAR CANCER-ASSOCIATED CHROMOSOMAL
; FILE REFERENCE: 3589,1018-008
; CURRENT APPLICATION NUMBER: US/11/194,055
; PRIOR FILING DATE: 2005-07-29
; PRIOR APPLICATION NUMBER: PCT/US2005/004865
; PRIOR FILING DATE: 2005-02-09
; PRIOR APPLICATION NUMBER: 60/543,119
; PRIOR FILING DATE: 2004-02-09
; PRIOR APPLICATION NUMBER: 60/542,929
; PRIOR FILING DATE: 2004-02-09
; PRIOR APPLICATION NUMBER: 60/542,963
; PRIOR FILING DATE: 2004-02-09
; PRIOR APPLICATION NUMBER: 60/542,940
; PRIOR FILING DATE: 2004-02-09
; PRIOR APPLICATION NUMBER: 60/580,959
; PRIOR FILING DATE: 2004-06-18
; PRIOR APPLICATION NUMBER: 60/580,797
; PRIOR FILING DATE: 2004-06-18
; NUMBER OF SEQ ID NOS: 663
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 32
; LENGTH: 108
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-194-055-32
```

```
Query Match 35.7%; Score 29.6; DB 8; Length 108;
Best Local Similarity 48.5%; Pred. No. 0.34;
Matches 33; Conservative 11; Mismatches 24; Indels 0; Gaps 0;
```

```
OY 16 GCAGCACAUAUUGGUAUUGGUAUUGGUAAGGCGCAUUAUUGGCGCUCACAAA 75
DB 97 GCAGCACAUAUUGGCGCGACCTTTCACAAATCCAAACCATTAATGCTGCTACTTTA 38
OY 76 AUAACAAG 83
DB 37 CTCACAAG 30
```

```
RESULT 11
US-10-449-902-2754
; Sequence 2754, Application US/10449902
; Publication No. US2006012505A1
; GENERAL INFORMATION:
; APPLICANT: National Institute of Agrobiological Sciences.
; APPLICANT: Bio-oriented Technology Research Advancement Institution.
; APPLICANT: The Institute of Physical and Chemical Research.
; APPLICANT: Foundation for Advancement of International Science.
; TITLE OF INVENTION: FULL-LENGTH PLANT CDNA AND USES THEREOF
```

```

; FILE REFERENCE: MOA-A0205Y1-US
; CURRENT APPLICATION NUMBER: US/10/449,902
; CURRENT FILING DATE: 2003-05-29
; PRIOR APPLICATION NUMBER: JP 2002-203269
; PRIOR FILING DATE: 2002-05-30
; PRIOR APPLICATION NUMBER: JP 2002-383870
; PRIOR FILING DATE: 2002-12-11
; NUMBER OF SEQ. ID NOS: 56791
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2754
; LENGTH: 1313
; TYPE: DNA
; ORGANISM: Oryza sativa
; PUBLICATION INFORMATION:
; DATABASE ACCESSION NUMBER: AK060554
; DATABASE ENTRY DATE: 2001-12-06
US-10-449-902-2754

```

```

Query Match      33.7%; Score 28; DB 6; Length 1313;
Best Local Similarity 44.7%; Pred. No. 3.2;
Matches 34; Conservative 12; Mismatches 30; Indels 0; Gaps 0;

```

```

QY 5 GGAGUAAAGUAGCAGCAUAUGUUUGGAGUUUUGAAGGUGCGCAUAUUG 64
DB 330 GAAGTGAAAGAGATGCGATTATGCTATTAAAGATTGGAATGATGATCAAGCTATATGAA 389
QY 65 CUGCCUCAAUAUACA 80
DB 390 AACCAATTAAGATGATA 405

```

```

RESULT 12
US-10-449-902-28048
; Sequence 28048, Application US/10449902
; Publication No. US20060123505A1
; GENERAL INFORMATION:
; APPLICANT: National Institute of Agrobiological Sciences.
; APPLICANT: Bio-oriented Technology Research Advancement Institution.
; APPLICANT: The Institute of Physical and Chemical Research.
; APPLICANT: Foundation for Advancement of International Science.
; TITLE OF INVENTION: FULL-LENGTH PLANT CDNA AND USES THEREOF
; FILE REFERENCE: MOA-A0205Y1-US
; CURRENT APPLICATION NUMBER: US/10/449,902
; CURRENT FILING DATE: 2003-05-29
; PRIOR APPLICATION NUMBER: JP 2002-203269
; PRIOR FILING DATE: 2002-05-30
; PRIOR APPLICATION NUMBER: JP 2002-383870
; PRIOR FILING DATE: 2002-12-11
; NUMBER OF SEQ. ID NOS: 56791
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 28048
; LENGTH: 1385
; TYPE: DNA
; ORGANISM: Oryza sativa
; PUBLICATION INFORMATION:
; DATABASE ACCESSION NUMBER: AK103490
; DATABASE ENTRY DATE: 2002-08-28
US-10-449-902-28048

```

```

Query Match      33.7%; Score 28; DB 6; Length 1385;
Best Local Similarity 44.7%; Pred. No. 3.3;
Matches 34; Conservative 12; Mismatches 30; Indels 0; Gaps 0;

```

```

QY 5 GGAGUAAAGUAGCAGCAUAUGUUUGGAGUUUUGAAGGUGCGCAUAUUG 64
DB 327 GAAGTGAAAGAGATGCGATTATGCTATTAAAGATTGGAATGATGATCAAGCTATATGAA 386
QY 65 CUGCCUCAAUAUACA 80
DB 387 AACCAATTAAGATGATA 402

```

RESULT 13

```

US-11-218-305-15422/C
; Sequence 15422, Application US/11218305
; Publication No. US20060141495A1
; GENERAL INFORMATION:
; APPLICANT: MONSANTO TECHNOLOGY, LLC
; APPLICANT: McLaIRD, Paul L.
; APPLICANT: Tao, Mengbing
; APPLICANT: Wu, Kunsheng
; TITLE OF INVENTION: Polymorphic Markers and Methods of Genotyping
; FILE REFERENCE: 38-21 (53660)B
; CURRENT APPLICATION NUMBER: US/11/218,305
; CURRENT FILING DATE: 2005-09-01
; PRIOR APPLICATION NUMBER: US 60/606,880
; PRIOR FILING DATE: 2004-09-01
; NUMBER OF SEQ. ID NOS: 25043
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 15422
; LENGTH: 5689
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (420)..(420)
; OTHER INFORMATION: n is a, c, g, or t
; NAME/KEY: misc feature
; LOCATION: (759)..(759)
; OTHER INFORMATION: n is a, c, g, or t
US-11-218-305-15422

```

```

Query Match      33.7%; Score 28; DB 9; Length 5689;
Best Local Similarity 42.6%; Pred. No. 5.5;
Matches 29; Conservative 14; Mismatches 25; Indels 0; Gaps 0;

```

```

QY 10 AANGUACGACGACAUUAUGUUUGGAGUUUUGAAGGUGCGCAUAUUGGCTGCC 69
DB 3570 AAAATATCGATGACGAGAGATTGCGACATTGCGAAGAAATGAGACCGATGCTCTGGA 3511
QY 70 UCAGAAAU 77
DB 3510 TTGAAACT 3503

```

```

RESULT 14
US-11-266-748A-268472
; Sequence 268472, Application US/11266748A
; Publication No. US20060134663A1
; GENERAL INFORMATION:
; APPLICANT: Harkin, Paul
; APPLICANT: Johnston, Patrick
; APPLICANT: Mulligan, Karl
; TITLE OF INVENTION: Transcriptome Microarray Technology and
; FILE REFERENCE: 55815-0102 (319189)
; CURRENT APPLICATION NUMBER: US/11/266,748A
; CURRENT FILING DATE: 2005-11-03
; PRIOR APPLICATION NUMBER: EP 04105479.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105482.6
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105483.4
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105507.0
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105485.9
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105484.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: US 60/662,276
; PRIOR FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/700,293
; PRIOR FILING DATE: 2005-07-18

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OM nucleic - nucleic search, using sw model

Run on: November 1, 2006, 19:39:18 / Search time 487.143 Seconds  
(without alignments)  
2887.948 Million cell updates/sec

Title: US-10-706-798-3

Perfect score: 22  
Sequence: 1 uagcagcacauaugguugug 22

Scoring table: IDENTITY NUC  
Gapop 10\_0, Gapext 1.0

Searched: 6366136 seqs, 31973710525 residues

Total number of hits satisfying chosen parameters: 12732272

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database :

GenEmbl: \*  
1: gb\_env: \*  
2: gb\_pat: \*  
3: gb\_ph: \*  
4: gb\_pl: \*  
5: gb\_pr: \*  
6: gb\_ro: \*  
7: gb\_sts: \*  
8: gb\_sy: \*  
9: gb\_un: \*  
10: gb\_vi: \*  
11: gb\_ov: \*  
12: gb\_htg: \*  
13: gb\_in: \*  
14: gb\_om: \*  
15: gb\_da: \*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	22	100.0	22	2	CQ873604	CQ873604 Sequence
2	22	100.0	22	2	CS166305	CS166305 Sequence
3	22	100.0	22	2	CS185031	CS185031 Sequence
4	22	100.0	22	2	CS185033	CS185033 Sequence
5	22	100.0	22	2	CS185099	CS185099 Sequence
6	22	100.0	22	2	CS185099	CS185099 Sequence
7	22	100.0	22	6	MMU459705	MMU459705 Mus muscu
8	22	100.0	40	2	CS185094	CS185094 Sequence
9	22	100.0	83	2	CS185098	CS185098 Sequence
10	22	100.0	83	2	CS188802	CS188802 Sequence
11	22	100.0	108	2	CS188801	CS188801 Sequence
12	22	100.0	663	5	AY866304	AY866304 Lemur cat
13	22	100.0	712	5	AY866308	AY866308 Iagotrrix
14	22	100.0	747	5	AY866306	AY866306 Pongo pyg
15	22	100.0	825	5	AY866302	AY866302 Saguinus
16	22	100.0	836	5	AY866299	AY866299 Ateles ge
17	22	100.0	871	5	AY866301	AY866301 Macaca nu
18	22	100.0	896	5	AY866305	AY866305 Macaca nu

19	22	100.0	901	5	AY866300	AY866300 Gorilla g
20	22	100.0	902	5	AY866307	AY866307 Pan trogl
21	22	100.0	914	5	AY866303	AY866303 Pan panis
22	22	100.0	153092	5	AC069475	AC069475 Homo sapi
23	22	100.0	154868	5	AF334404	AF334404 Homo sapi
24	22	100.0	154887	5	AL137060	AL137060 Human DNA
25	22	100.0	172152	6	AC154660	AC154660 Mus muscu
26	22	100.0	184155	12	AC155017	AC155017 Bos tauru
27	22	100.0	235659	12	AC152429	AC152429 Bos tauru
28	22	100.0	347503	5	AF279660	AF279660 Homo sapi
29	22	100.0	350000	5	AF440619	AF440619 Homo sapi
30	22	92.7	97210	11	AL606727	AL606727 Zebrafish
31	20.4	92.7	214290	11	BX294379	BX294379 Zebrafish
32	20	90.9	945	5	HSJA325715	HSJA325715 Homo sapi
33	20	90.9	157118	5	AC069286	AC069286 Homo sapi
34	20	90.9	199906	12	AC021764	AC021764 Homo sapi
35	19.4	88.2	129986	12	AC148571	AC148571 Taeniodys
36	19.4	88.2	142102	12	AC149026	AC149026 Alligator
37	19.4	88.2	145139	12	AC148426	AC148426 Ornithorh
38	19.4	88.2	150820	12	AC154053	AC154053 Ictalurus
39	19.4	88.2	151543	12	AC148422	AC148422 Meleagris
40	19.4	88.2	160466	12	AC148572	AC148572 Taeniodys
41	19.4	88.2	161530	12	CT027989	CT027989 Danio rer
42	19.4	88.2	222429	12	AC148419	AC148419 Meleagris
43	19.4	88.2	250743	13	AE014836	AE014836 Plasmodiu
44	19	86.4	161956	11	BX640540	BX640540 Chicken D
45	18.8	85.5	883	5	AF330705	AF330705 Homo sapi

#### ALIGNMENTS

RESULT 1  
CQ873604 22 bp RNA linear PAT 27-SEP-2004  
LOCUS CQ873604  
DEFINITION Sequence 23 from Patent WO2004076622.  
ACCESSION CQ873604  
VERSION CQ873604.1 GI:52747196  
KEYWORDS  
SOURCE  
ORGANISM Homo sapiens (human)  
Homo sapiens  
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;  
Homidae; Homo.

REFERENCE  
AUTHORS Taira K. and Kawasaki H.  
TITLE Regulation of mammalian cells  
JOURNAL Patent: WO 2004076622-A 23 10-SEP-2004;  
National Institute of Advanced Industrial Science and Tec hnology  
(JIP)

FEATURES  
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Db 1 TACGACGACATATGCTTGTG 22

RESULT 2  
CS166305 22 bp RNA linear PAT 26-SEP-2005  
LOCUS CS166305  
DEFINITION Sequence 16 from Patent WO2005078096.  
ACCESSION CS166305  
VERSION CS166305.1 GI:76362075  
KEYWORDS

SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
REFERENCE 1  
AUTHORS Zamore, P.D.  
TITLE Dual functional oligonucleotides for use in repressing mutant gene expression  
JOURNAL Patent: WO 2005078096-A 16 25-AUG-2005;  
FEATURES Location/Qualifiers  
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Db 1 TAGCAGCACATTAATGTTGTG 22

RESULT 3  
CS185031 22 bp DNA linear PAT 01-NOV-2005  
DEFINITION Sequence 5 from Patent WO2005098029.  
ACCESSION CS185031  
VERSION CS185031.1 GI:78585003  
KEYWORDS  
SOURCE synthetic construct  
ORGANISM other sequences; artificial sequences.  
REFERENCE 1  
AUTHORS Jacobsen, N.  
TITLE NOVEL METHODS FOR QUANTIFICATION OF MICRORNAS AND SMALL INTERFERING RNAs  
JOURNAL Patent: WO 2005098029-A 5 20-OCT-2005;  
FEATURES Location/Qualifiers  
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Db 1 TAGCAGCACATTAATGTTGTG 22

RESULT 4  
CS185033 22 bp RNA linear PAT 01-NOV-2005  
DEFINITION Sequence 7 from Patent WO2005098029.  
ACCESSION CS185033  
VERSION CS185033.1 GI:78585005  
KEYWORDS  
SOURCE synthetic construct  
ORGANISM other sequences; artificial sequences.  
REFERENCE 1  
AUTHORS Jacobsen, N.  
TITLE NOVEL METHODS FOR QUANTIFICATION OF MICRORNAS AND SMALL INTERFERING

JOURNAL Patent: WO 2005098029-A 7 20-OCT-2005;  
FEATURES Exigon A/S (DK)  
source Location/Qualifiers  
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Best Local Similarity 68.2%; Pred. No. 1;  
Matches 15; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

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Db 1 TAGCAGCACATTAATGTTGTG 22

RESULT 5  
CS185099 22 bp RNA linear PAT 01-NOV-2005  
DEFINITION Sequence 73 from Patent WO2005098029.  
ACCESSION CS185099  
VERSION CS185099.1 GI:78585071  
KEYWORDS  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
REFERENCE 1  
AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homiidae; Homo.  
TITLE NOVEL METHODS FOR QUANTIFICATION OF MICRORNAS AND SMALL INTERFERING RNAs  
JOURNAL Patent: WO 2005098029-A 73 20-OCT-2005;  
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Db 1 TAGCAGCACATTAATGTTGTG 22

RESULT 6  
HSA421733 22 bp RNA linear PRI 11-JUN-2003  
LOCUS HSA421733  
DEFINITION Homo sapiens microRNA mir-15.  
ACCESSION AJ421733  
VERSION AJ421733.1 GI:17646018  
KEYWORDS miRNA.  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
REFERENCE 1 (bases 1 to 22)  
AUTHORS Lagos-Quintana, M., Rauhut, R., Lendackel, W. and Tuschl, T.  
TITLE Identification of novel genes coding for small expressed RNAs  
JOURNAL Science 294 (5543), 853-858 (2001)  
PUBMED 11679670  
REFERENCE 2 (bases 1 to 22)  
AUTHORS Tuschl, T.



TITLE Direct Submission  
JOURNAL Submitted (05-NOV-2001) Dep. of Cellular Biochemistry, Max Planck  
Institute for Biophysical Chemistry, Am Fassberg 11, Goettingen  
37077, Germany  
COMMENT Related sequences: AC069475.  
FEATURES Location/Qualifiers  
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DEFINITION Mus musculus microRNA mir-15a.  
ACCESSION AJ459705  
VERSION AJ459705.1 GI:20799023  
KEYWORDS microRNA mir-15a; mir-15a gene; miRNA.  
SOURCE Mus musculus (house mouse)  
ORGANISM Mus musculus  
Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;  
Sciurognathi; Muridae; Murinae; Mus.  
REFERENCE  
AUTHORS 1  
Lagos-Quintana, M., Rauhut, R., Yalcin, A., Meyer, J., Lendeckel, W. and  
Tuschl, T.  
TITLE Identification of tissue-specific microRNAs from mouse  
JOURNAL Curr. Biol. 12 (9), 735-739 (2002)  
PUBMED 12007417  
REFERENCE 2 (bases 1 to 22)  
AUTHORS Tuschl, T.  
TITLE Direct Submission  
SUBMITTED (06-MAY-2002) Dep. of Cellular Biochemistry, Max Planck  
Institute for Biophysical Chemistry, Am Fassberg 11, Goettingen  
37077, Germany  
COMMENT related sequence: T172137197 (Trace Archive).  
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RESULT 8  
LOCUS CS189094 40 bp DNA linear PAT 04-NOV-2005  
DEFINITION Sequence 325 from Patent WO2005078139.  
ACCESSION CS189094  
VERSION CS189094.1 GI:80750083  
KEYWORDS  
SOURCE  
ORGANISM  
REFERENCE  
AUTHORS 1  
Croce, C.M.  
JOURNAL Patent: WO 2005078139-A 325 25-AUG-2005;  
THOMAS JEFFERSON UNIVERSITY (US)  
FEATURES Location/Qualifiers  
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LOCUS CS185098 83 bp RNA linear PAT 01-NOV-2005  
DEFINITION Sequence 72 from Patent WO2005098029.  
ACCESSION CS185098  
VERSION CS185098.1 GI:78585070  
KEYWORDS  
SOURCE  
ORGANISM  
Homo sapiens (human)  
Homo sapiens  
Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;  
Homidae; Homo.  
REFERENCE  
AUTHORS 1  
Jacobsen, N.  
TITLE NOVEL METHODS FOR QUANTIFICATION OF MICRORNAs AND SMALL INTERFERING  
JOURNAL RNAs  
PATENT: WO 2005098029-A 72 20-OCT-2005;  
EXIGON A/S (DK)  
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14 TAGCAGCATATATGTTGTG 35  
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LOCUS CS188802 83 bp DNA linear PAT 04-NOV-2005  
DEFINITION Sequence 33 from Patent WO2005078139.  
ACCESSION CS188802  
VERSION CS188802.1 GI:80749791  
KEYWORDS  
SOURCE  
Homo sapiens (human)

ORGANISM	Homo sapiens									
LOCUS	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homiidae; Homo.									
REFERENCE	1 Croce, C.M.									
AUTHORS	Patent: WO 2005078139-A 33 25-AUG-2005;									
JOURNAL	THOMAS JEFFERSON UNIVERSITY (US)									
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LOCUS	CS188801 108 bp DNA linear PAT 04-NOV-2005									
DEFINITION	Sequence 32 from Patent WO2005078139.									
ACCESSION	CS188801									
VERSION	CS188801.1 GI:80749790									
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SOURCE	Homo sapiens									
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homiidae; Homo.									
REFERENCE	1 Croce, C.M.									
AUTHORS	Patent: WO 2005078139-A 32 25-AUG-2005;									
JOURNAL	THOMAS JEFFERSON UNIVERSITY (US)									
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LOCUS	AY866304 663 bp DNA linear PRI 24-JAN-2005									
DEFINITION	Lemur catta microRNA mir-15a and microRNA mir-16-1 genes, complete sequence.									
ACCESSION	AY866304									
VERSION	AY866304.1 GI:57903106									
KEYWORDS	Lemur catta (ring-tailed lemur)									
SOURCE	Lemur catta									
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Strepsirhini; Lemuridae; Lemur.									
REFERENCE	1 (bases 1 to 663)									
AUTHORS	Berezikov, E., Gurjev, V., van de Belt, J., Wienholds, E.,									
	Plasterk, R.H., and Cuppen, E.									
TITLE	Phylogenetic Shadowing and Computational Identification of Human									

JOURNAL	Cell 120	(1), 21-24	(2005)
PUBMED	15652478		
REFERENCE	2	(bases 1 to 663)	
AUTHORS	Berezikov,E., Gurjev,V., van de Belt,J., Wienholds,E., Plasterk,R.H.A. and Cuppen,E.		
TITLE	Direct Submission		
JOURNAL	Submitted (29-DEC-2004) Hubrecht Laboratory, Uppsalalaan 8, Utrecht 3584 CT, The Netherlands		
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	/note="based on Homo sapiens mir-16-1"		
misc_RNA	603..624		
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LOCUS	AY866308	712 bp	DNA linear PRI 24-JAN-2005
DEFINITION	Lagotrix lagotricha microRNA mir-15a and microRNA mir-16-1 genes,		
ACCESSION	complete sequence.		
VERSION	AY866308		
KEYWORDS	AY866308.1 GI:57903110		
SOURCE	'		
ORGANISM	Lagotrix lagotricha (common woolly monkey)		
	Lagotrix lagotricha		
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REFERENCE	1 (bases 1 to 712)		
AUTHORS	Berezikov,E., Gurjev,V., van de Belt,J., Wienholds,E., Plasterk,R.H. and Cuppen,E.		
TITLE	Phylogenetic Shadowing and Computational Identification of Human microRNA Genes		
JOURNAL	Cell 120 (1), 21-24		(2005)
PUBMED	15652478		
REFERENCE	2	(bases 1 to 712)	
AUTHORS	Berezikov,E., Gurjev,V., van de Belt,J., Wienholds,E., Plasterk,R.H.A. and Cuppen,E.		
TITLE	Direct Submission		
JOURNAL	Submitted (29-DEC-2004) Hubrecht Laboratory, Uppsalalaan 8, Utrecht 3584 CT, The Netherlands		
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AUTHORS	AUTHORS				AUTHORS	AUTHORS			
TITLE	TITLE				TITLE	TITLE			
JOURNAL	JOURNAL				JOURNAL	JOURNAL			
PUBMED	PUBMED				PUBMED	PUBMED			
15652478	15652478				15652478	15652478			
2 (bases 1 to 747)	2 (bases 1 to 747)				2 (bases 1 to 747)	2 (bases 1 to 747)			
Berezikov,E., Guryev,V., van de Belt,J., Wienholds,E.,	Berezikov,E., Guryev,V., van de Belt,J., Wienholds,E.,				Berezikov,E., Guryev,V., van de Belt,J., Wienholds,E.,	Berezikov,E., Guryev,V., van de Belt,J., Wienholds,E.,			
Plasterk,R.H.A. and Cuppen,E.	Plasterk,R.H.A. and Cuppen,E.				Plasterk,R.H.A. and Cuppen,E.	Plasterk,R.H.A. and Cuppen,E.			
Direct Submission	Direct Submission				Direct Submission	Direct Submission			
Submitted (29-DEC-2004)	Submitted (29-DEC-2004)				Submitted (29-DEC-2004)	Submitted (29-DEC-2004)			
Hubrecht Laboratory, Uppsalaalaan 8, Utrecht	Hubrecht Laboratory, Uppsalaalaan 8, Utrecht				Hubrecht Laboratory, Uppsalaalaan 8, Utrecht	Hubrecht Laboratory, Uppsalaalaan 8, Utrecht			
3584 CT, The Netherlands	3584 CT, The Netherlands				3584 CT, The Netherlands	3584 CT, The Netherlands			
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KEYWORDS	
SOURCE	Sagunus labiatus (red-chested mustached tamarin)
ORGANISM	Sagunus labiatus Bakayora; Metzozoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Platyrrhini; Callitrichidae; Sagunus. 1 (bases 1 to 825)
REFERENCE	Berezikov,E., Guryev,V., van de Belt,J., Wienholds,E., Plasterk,R.H. and Cuppen,E. Phylogenetic Shadowing and Computational Identification of Human microRNA Genes Cell 120 (1), 21-24 (2005)
TITLE	
JOURNAL	
PUBMED	15652478
REFERENCE	2 (bases 1 to 825)
AUTHORS	Berezikov,E., Guryev,V., van de Belt,J., Wienholds,E., Plasterk,R.H.A. and Cuppen,E. Direct Submission Submitted (29-DEC-2004) Hubrecht Laboratory, Uppsalalaan 8, Utrecht 3584 CT, The Netherlands
TITLE	
JOURNAL	
FEATURES	Location/Qualifiers source 1..825 /organism="Sagunus labiatus" /mol_type="genomic DNA" /db_xref="taxon:78454" 448..530 /product="precursor microRNA mir-15a" /note="based on Homo sapiens mir-15a" 461..482 /product="microRNA mir-15a" 588..676 /product="precursor microRNA mir-16-1" /note="based on Homo sapiens mir-16-1" 601..622 /product="microRNA mir-16-1"
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Job time : 492.143 secs	

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OM nucleic - nucleic search, using sw model

Run on: November 1, 2006, 20:21:19 ; Search time 1020.17 Seconds  
(without alignments)  
1205.901 Million cell updates/sec

Title: US-10-706-798-3

Perfect score: 22

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Gapop 10.0, Gapext 1.0

Searched: 48236798 seqs, 27959665780 residues

Total number of hits satisfying chosen parameters: 96473596

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%  
Listing first 45 summaries

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2: gb\_est3.\*  
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6: gb\_est7.\*  
7: gb\_est8.\*  
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12: gb\_est13.\*  
13: gb\_est14.\*  
14: gb\_est15.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	22	100.0	330	14	AL739377 Danio rer
2	22	100.0	486	11	DR22A19S
3	22	100.0	638	11	AQ672199 HS 2151_B
4	19.4	88.2	445	4	AZ938498 2M0197A08
5	19.4	88.2	627	2	BW637082 BW637082
6	19.4	88.2	723	9	BW627722 BW627722
7	19.4	88.2	785	4	BM723290 BM723290
8	19.4	88.2	804	4	BM730170 BM730170
9	19.4	88.2	884	3	BM730170 BM730170
10	18.8	85.5	394	13	BM730170 BM730170
11	18.8	85.5	586	11	BM730170 BM730170
12	18.8	85.5	830	4	BM730170 BM730170
13	18.8	85.5	893	14	BM730170 BM730170
14	18.4	83.6	932	1	BM730170 BM730170
15	18.4	83.6	932	1	BM730170 BM730170
16	17.8	80.9	193	1	BM730170 BM730170
17	17.8	80.9	386	11	BM730170 BM730170
18	17.8	80.9	421	11	BM730170 BM730170
19	17.8	80.9	422	8	BM730170 BM730170

20	17.8	80.9	473	8	CV473806
21	17.8	80.9	539	8	CV473806
22	17.8	80.9	604	8	CV473806
23	17.8	80.9	613	14	DE135052
24	17.8	80.9	617	13	DE135052
25	17.8	80.9	631	8	DE135052
26	17.8	80.9	670	14	DE135052
27	17.8	80.9	679	11	DE135052
28	17.8	80.9	744	13	DE135052
29	17.8	80.9	802	4	DE135052
30	17.8	80.9	803	13	DE135052
31	17.8	80.9	823	11	DE135052
32	17.8	80.9	860	11	DE135052
33	17.8	80.9	889	11	DE135052
34	17.8	80.9	983	11	DE135052
35	17.8	80.9	1272	2	DE135052
36	17.4	79.1	260	13	DE135052
37	17.4	79.1	271	4	DE135052
38	17.4	79.1	354	12	DE135052
39	17.4	79.1	412	4	DE135052
40	17.4	79.1	420	1	DE135052
41	17.4	79.1	459	3	DE135052
42	17.4	79.1	500	1	DE135052
43	17.4	79.1	543	2	DE135052
44	17.4	79.1	611	11	DE135052
45	17.4	79.1	627	13	DE135052

# ALIGNMENTS

RESULT 1  
DR22A19S  
LOCUS  
DEFINITION  
ACCESSION  
VERSION  
KEYWORDS  
SOURCE  
ORGANISM

DR22A19S  
Danio rerio genomic clone DKEX-22A19, genomic survey sequence.  
AL739377.1 GI:21348782  
GSS.  
Danio rerio (zebrafish)  
Danio rerio  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes; Cyprinidae; Danio.  
1 (bases 1 to 330)  
Humphrey, S.J., Huckle, E. and Hunt, S.E.  
Direct Submission  
Submitted (06-JUN-2002) The Sanger Institute, Wellcome Trust Genome Campus, Hinxton, Cambridgeshire, CB10 1SA, UK. E-mail contact: humphrey@sanger.ac.uk Unpublished  
This sequence was generated from the SP6 end of BAC 22A19. 22A19 is part of the Daniokey BAC library created by R. Plasterk and N.V. Keygene.  
Further details: [http://www.sanger.ac.uk/projects/D\\_rerio/](http://www.sanger.ac.uk/projects/D_rerio/).

# COMMENT

FEATURES  
source  
1. 330  
Location/Qualifiers  
/organism="Danio rerio"  
/mol\_type="genomic DNA"  
/db\_xref="taxon:7955"  
/clone="DKEX-22A19"  
/issue\_type="Testis"  
/note="vector pindigobAC-536"

# ORIGIN

Query Match 100.0%; Score 22; DB 14; Length 330;  
Best Local Similarity 68.2%; Pred. No. 6.6;  
Matches 15; Conservative 7; Mismatches 0; Indels 0; Gaps 0;  
CY 1 UAGCAGCACAUAUGGUGUG 22  
DB 162 TAGACGACAAATGCTTGG 183

RESULT 2

AO672199/c 486 bp DNA linear GSS 24-JUN-1999  
 LOCUS HS.2151.B1.B12.MR.CIT.Approved.Human.Genomic.Sperm.Library.D.Homo.sapiens.genomic.clone.Plasmid=2151.Col=23.Row=D,genomic.survey  
 DEFINITION sequence.  
 AO672199  
 ACCESSION AO672199.1 GI:5204870  
 VERSION GSS.  
 KEYWORDS Homo.sapiens (human)  
 ORGANISM Homo.sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homiidae; Homo.  
 REFERENCE 1 (bases 1 to 486)  
 AUTHORS Mahairas,G.G., Wallace,J.C., Smith,K., Swartzell,S., Holzman,T., Keller,A., Shaker,R., Furlong,J., Young,J., Zhao,S., Adams,M.D. and Hood,L.  
 TITLE Sequence-tagged connectors: A sequence approach to mapping and scanning the human genome  
 JOURNAL Proc. Natl. Acad. Sci. U.S.A. 96 (17), 9739-9744 (1999)  
 PUBMED 10449764  
 COMMENT Contact: Mahairas GG, Wallace JC, Hood L  
 High Throughput Sequencing Center  
 University of Washington  
 401 Queen Anne Avenue North, Seattle, WA 98109, USA  
 Tel: (206) 616-3618  
 Fax: (206) 616-3887  
 Email: jwallace@u.washington.edu  
 Clones may be purchased from Research Genetics (info@reagen.com).  
 BAC end Web Server: http://www.htsc.washington.edu  
 Plate: 2151 row: D column: 23  
 Seq primer: M13 Reverse  
 Class: BAC ends  
 High quality sequence stop: 486.  
 FEATURES  
 source  
 1..486  
 /organism="Homo sapiens"  
 /mol\_type="genomic DNA"  
 /db\_xref="taxon:9606"  
 /clone="Plasmid=2151 Col=23 Row=D"  
 /sex="male"  
 /clone\_lib="CIT Approved Human Genomic Sperm Library D"  
 /note="Organ: sperm; Vector: pBelBAC11; BAC Clones in E-Coli DH10B"  
 ORIGIN  
 Query Match 100.0%; Score 22; DB 11; Length 486;  
 Best Local Similarity 68.2%; Pred. No. 6.9;  
 Matches 15; Conservative 7; Mismatches 0; Indels 0; Gaps 0;  
 Oy 1 UAGCAGCACAUAUGUUUG 22  
 Db 427 TAGCAGCACAATATGTTGTG 406

TITLE Mouse whole genome scaffolding with paired end reads from 10kb  
 JOURNAL plasmid inserts  
 COMMENT Unpublished (2000)  
 Contact: Robert B. Weiss  
 University of Utah Genome Center  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177  
 Email: ddunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00  
 Plate: 0197 row: A column: 08  
 Seq primer: CGTTGTAAACGACGCCACT  
 Class: plasmid ends  
 High quality sequence stop: 638.  
 FEATURES  
 source  
 1..638  
 /organism="Mus musculus"  
 /mol\_type="genomic DNA"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UUCG2M0197A08"  
 /sex="Female"  
 /lab\_host="E. coli strain XL10-Gold, T1-resistant, F-"  
 /clone\_lib="Mouse 10kb plasmid UUCG2M library"  
 /note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (female) was obtained from the Jackson Laboratory Mouse DNA Resource  
 (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptor complementary to the insert adaptor and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."  
 ORIGIN  
 Query Match 100.0%; Score 22; DB 11; Length 638;  
 Best Local Similarity 68.2%; Pred. No. 7.1;  
 Matches 15; Conservative 7; Mismatches 0; Indels 0; Gaps 0;  
 Oy 1 UAGCAGCACAUAUGUUUG 22  
 Db 188 TAGCAGCACAATATGTTGTG 167

RESULT 3  
 AZ938498/c 638 bp DNA linear GSS 26-APR-2001  
 LOCUS 2M0197A088.Mouse.10kb.plasmid.UUCG2M.library.Mus.musculus.genomic.clone.UUCG2M0197A08.F,genomic.survey.sequence.  
 ACCESSION AZ938498  
 VERSION AZ938498.1 GI:13798291  
 KEYWORDS GSS.  
 SOURCE Mus musculus (house mouse)  
 ORGANISM Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi; Muroidea; Muridae; Murinae; Mus.  
 REFERENCE 1 (bases 1 to 638)  
 AUTHORS Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamill,C., Irlam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D., Weiss,R.

RESULT 4  
 BM837082 445 bp mRNA linear EST 24-DEC-2005  
 LOCUS BM837082.Amphioxus.Branchiostoma.floridae.unpublished.cdna.library.larva.whole.animal.Branchiostoma.floridae.cdna.clone.b1v059118.3',mRNA.sequence.  
 DEFINITION  
 ACCESSION BM837082  
 VERSION BM837082.1 GI:66445298  
 KEYWORDS EST.  
 SOURCE Branchiostoma floridae (Florida lancelet)  
 ORGANISM Branchiostoma floridae  
 Eukaryota; Metazoa; Chordata; Cephalochordata; Branchiostomidae; Branchiostoma.  
 REFERENCE 1 (bases 1 to 445)  
 AUTHORS Yu,J., Holland,L.Z., Shin-I,T., Kohara,Y., Satou,Y. and Satoh,N.  
 TITLE Expressed genes in Branchiostoma floridae  
 JOURNAL Unpublished (2005)

## COMMENT

Contact: Tadaeu Shin-i  
Center For Genetic Resource Information  
National Institute of Genetics  
1111 Yata, Mishima, Shizuoka 411-8540, Japan  
Tel: 81-559-81-6856  
Fax: 81-559-81-6855  
Email: tshini@genes.nig.ac.jp  
If you want to have a cDNA clone for this EST or if you have any  
questions, please send an e-mail to Nori Satoh  
(satoeh@ascidian.zool.kyoto-u.ac.jp) and its cc to Yutaka Satou  
(yutaka@ascidian.zool.kyoto-u.ac.jp).

## FEATURES

## source

1..445  
/organism="Branchiostoma floridae"  
/mol\_type="mRNA"  
/db\_xref="taxon:7739"  
/clone="bfly059118"  
/tissue\_type="whole animal"  
/dev\_stage="larva"  
/clone\_lib="Amphioxus Branchiostoma floridae unpublished  
cDNA library, larva whole animal"

## ORIGIN

Query Match 88.2%; Score 19.4; DB 4; Length 445;  
Best Local Similarity 66.7%; Pred. No. 1.4e+02;  
Matches 14; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY 2 AGCAGCACAAUAGUGUUGU 22

Db 56 AGCAGTACATATATGGTTGTG 76

RESULT 5  
LOCUS B0627722 627 bp mRNA linear EST 01-OCT-2003  
DEFINITION B0627722 NIBB Mochii normalized Xenopus early gastrula library  
Xenopus laevis cDNA clone XL219C06 5', mRNA sequence.

ACCESSION B0627722  
VERSION B0627722.1 GI:37274592  
KEYWORDS EST.  
SOURCE Xenopus laevis (African clawed frog)  
ORGANISM Xenopus laevis

REFERENCE  
AUTHORS Kitayama,A., Terasaka,C., Mochii,M., Ueno,N., Shin-i,T. and  
Konara,Y.  
TITLE Expressed genes in X. laevis embryo  
JOURNAL Unpublished (2001)  
COMMENT Contact: Tadaeu Shin-i  
Center For Genetic Resource Information  
National Institute of Genetics  
1111 Yata, Mishima, Shizuoka 411-8540, Japan  
Tel: 81-559-81-6856  
Fax: 81-559-81-6855  
Email: tshini@genes.nig.ac.jp  
The information of this clone is available through the following  
URL.  
http://xenopus.nibb.ac.jp.  
Location/Qualifiers

FEATURES  
source  
1..627  
/organism="Xenopus laevis"  
/mol\_type="mRNA"  
/db\_xref="taxon:8355"  
/clone="XL219C06"  
/tissue\_type="whole embryo"  
/dev\_stage="stage 10.5"  
/clone\_lib="NIBB Mochii normalized Xenopus early gastrula  
library"

## ORIGIN

Query Match 88.2%; Score 19.4; DB 2; Length 627;

Best Local Similarity 61.9%; Pred. No. 1.4e+02;  
Matches 13; Conservative 7; Mismatches 1; Indels 0; Gaps 0;

QY 1 UAGCAGCACAAUAGUGUUGU 21  
Db 200 TAGCAGCACATCATGTTTGT 220

RESULT 6  
LOCUS CX379068 723 bp mRNA linear EST 08-SEP-2005  
DEFINITION JGI XZP50833.fwd NIH XGC\_tropTad5 Xenopus tropicalis cDNA clone  
IMAGE:7625775 5', mRNA sequence.

ACCESSION CX379068  
VERSION CX379068.2 GI:74290621  
KEYWORDS EST.  
SOURCE Xenopus tropicalis (western clawed frog)  
ORGANISM Xenopus tropicalis

REFERENCE  
AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Amphibia; Batrachia; Anura; Mesobatrachia; Pipidae; Pipidae;  
Xenopodinae; Xenopus; Silurana.  
1 (bases 1 to 723)

Richardson,P., Lucas,S., Rokhsar,D., Dettler,J.C., Ng,D.C.,  
Brokstein,P. and Lindquist,E.A.  
DOE Joint Genome Institute Xenopus tropicalis EST project  
Unpublished (2004)  
On Jan 5, 2005 this sequence version replaced gi:57147625.  
Contact: Lindquist,E.A., Richardson,P.  
DOE Joint Genome Institute  
2800 Mitchell Drive, Walnut Creek, CA 94598, USA  
Tel: 925 296 5600  
Fax: 925 296 5710  
Email: cdna@jgi-psf.org  
Tissue Procurement: Richard M. Harland Laboratory, University of  
California, Berkeley: http://tropicalis.berkeley.edu/home  
cDNA library Preparation: Richard M. Harland Laboratory, University  
of California, Berkeley  
DNA Sequencing: DOE Joint Genome Institute: http://www.jgi.doe.gov  
Clone Distribution: I.M.A.G.E. Consortium/LLNL:  
http://image.llnl.gov

Naming Conventions: EST name is generated by the concatenation of  
the JGI Clone id and the direction of sequencing. The suffix '.fwd'  
indicates a forward sequencing read of the insert. It does not  
necessarily reflect the orientation of the insert.  
Plate: XZP 0529 row: b column: 13  
High quality sequence stop: 668.  
Location/Qualifiers

## FEATURES

## source

1..723  
/organism="Xenopus tropicalis"  
/mol\_type="mRNA"  
/db\_xref="taxon:8364"  
/clone="IMAGE:7625775"  
/tissue\_type="whole embryo"  
/dev\_stage="Tadpole (st. 36-41)"  
/lab\_host="E. coli XL1-Blue derivative, Stratagene  
Electroten-Blue"  
/clone\_lib="NIH XGC\_tropTad5"  
/note="Vector: PCS108; Site 1: SalI; Site 2: NotI; Tadpole  
library constructed by Russell B. Fletcher in R. Harland's  
lab using poly A RNA and oligo dt primers (Invitrogen  
SuperScript Plasmid System for cDNA Synthesis and  
Cloning). SalI (5' end) -NotI (3' end) cDNA was inserted  
into vector PCS108  
(http://mc.berkeley.edu/labs/harland/pages/plasmids.html)

## ORIGIN

Query Match 88.2%; Score 19.4; DB 9; Length 723;  
Best Local Similarity 61.9%; Pred. No. 1.5e+02;  
Matches 13; Conservative 7; Mismatches 1; Indels 0; Gaps 0;

QY 1 UAGCAGCACAAUAGUGUUGU 21

:|||||||:|:|:|:|:|:





Best Local Similarity 61.9%; Pred. No. 1.5e+02;  
Matches 13; Conservative 7; Mismatches 1; Indels 0; Gaps 0;

QY 1 UAGCAGCACAUAUGGUGU 21  
:|||||:|||||:  
Db 185 TAGCAGCACAATCATGTTGT 205

RESULT 10  
LOCUS CL270436/c  
DEFINITION Ggal\_105a PR\_B06 Ggal PR-1 Gallus gallus genomic clone  
ACCESSION CL270436  
VERSION CL270436.1 GI:58747778  
KEYWORDS GSS.  
SOURCE Gallus gallus (chicken)  
ORGANISM Gallus gallus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Archosauria; Aves; Neognathae; Galliformes; Phasianidae;  
Phasianinae; Gallus.  
1 (bases 1 to 394)  
Wicker, T., Robertson, J.S., Schulze, S.R., Fellus, F.A., Magini, V.,  
Morrison, J.A., Martis, E.R., Wilson, R.K., Peterson, D.G.,  
Peterson, A.H., and Ivarte, R.  
The repetitive landscape of the chicken genome  
Genome Res. 15 (1), 126-136 (2005)  
1525510  
Contact: Peterson AH  
Plant Genome Mapping Laboratory  
University of Georgia, Center for Applied Genetic Technologies  
Riverbend Research Laboratory, Room 162, 110 Riverbend Road,  
Athens, GA 30602 USA  
Tel: 7065830169  
Fax: 7065830160  
Email: peterson@uga.edu  
Sequence from middle repetitive (MR) Cot fraction, Cot 10-100  
Class: Hydroxyapatite-fractionated DNA.  
Location/Qualifiers  
source 1..394  
/organism="Gallus gallus"  
/mol\_type="genomic DNA"  
/db\_xref="taxon:9031"  
/clone="Ggal\_105a PR\_B06"  
/sex="female"  
/clone\_1lb="Ggal PR-1"  
/note="Produced by Cot-based cloning and sequencing  
(CBCS)"

ORIGIN  
Query Match 85.5%; Score 18.8; DB 13; Length 394;  
Best Local Similarity 63.6%; Pred. No. 2.8e+02;  
Matches 14; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 1 UAGCAGCACAUAUGGUGU 22  
:|||||:|||||:|||||:  
Db 170 TAGACGACAGAAATGTTGTG 149

RESULT 11  
LOCUS BH048477/c  
DEFINITION RPCI-24-346015 JV RPCI-24 Mus musculus genomic clone  
ACCESSION BH048477  
VERSION BH048477.1 GI:14836401  
KEYWORDS GSS.  
SOURCE Mus musculus (house mouse)  
ORGANISM Mus musculus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;  
Sciurognathi; Muridae; Muridae; Murinae; Mus.  
1 (bases 1 to 586)

AUTHORS Zhao, S., Niernman, W., Malek, J., Shartsman, S., Akinret, B., Levins, M.,  
Tegaye, G., Geer, K., Krol, M., Shvartsbeyn, A., Gebregeorgis, E.,  
Russell, D., de Jong, P. and Fraser, C.M.  
Mouse BAC End Sequences from Library RPCI-24  
Unpublished (1999)  
Other GSSs: RPCI-24-346015.TV  
Contact: Shaying Zhao  
Department of Eukaryotic Genomics  
The Institute for Genomic Research  
9712 Medical Center Dr., Rockville, MD 20850, USA  
Tel: 301 838 0200  
Fax: 301 838 0208  
Email: szhao@tigr.org  
Clones are derived from the mouse BAC library RPCI-24. For BAC  
library availability, please contact Pieter de Jong  
(pdejong@mail.cho.org). Clones may be purchased from BACPAC  
Resources (<http://www.choi.org/bacpac/orderingframe.htm>). BAC end  
page: [http://www.tigr.org/tigr/bac/bac\\_ends/mouse/bac\\_end\\_intro.html](http://www.tigr.org/tigr/bac/bac_ends/mouse/bac_end_intro.html)  
Plate: 346 row: O column: 15  
Seq primer: T7  
Class: BAC ends.  
Location/Qualifiers  
source 1..586  
/organism="Mus musculus"  
/mol\_type="genomic DNA"  
/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="RPCI-24-346015"  
/sex="Male"  
/cell\_type="Spleen/Brain"  
/clone\_1lb="RPCI-24"  
/note="Vector: pTRAPAC1; Site\_1: BamHI, Site\_2: BamHI, The  
RPCI-24 Mouse BAC library produced by Pieter de Jong. The  
library was cloned in the pTRAPAC1 cloning vector at the  
BamHI sites using MboI partially digested male C57BL/6J  
DNA."

ORIGIN  
Query Match 85.5%; Score 18.8; DB 11; Length 586;  
Best Local Similarity 59.1%; Pred. No. 2.9e+02;  
Matches 13; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

QY 1 UAGCAGCACAUAUGGUGU 22  
:|||||:|||||:|||||:  
Db 321 TAACAGCATATAATGTTGTG 300

RESULT 12  
LOCUS CB562036  
DEFINITION AGENCOURT 13324904 NICHD XGC Tcd1 Xenopus laevis cDNA clone  
IMAGE:6880576 3', mRNA sequence.  
ACCESSION CB562036  
VERSION CB562036.1 GI:29481566  
KEYWORDS EST.  
SOURCE Xenopus laevis (African clawed frog)  
ORGANISM Xenopus laevis  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Amphibia; Batrachia; Anura; Mesobatrachia; Pipidoidea; Pipidae;  
Xenopodinae; Xenopus; Xenopus.  
1 (bases 1 to 830)  
NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
Tumor Gene Index  
Unpublished (1997)  
Contact: Robert Strausberg, Ph.D.  
Email: cgaps-remail.nih.gov  
Tissue Procurement: Drs. Donald Brown and Liqun Cai  
cDNA Library Preparation: CLONTECH  
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LIML)  
DNA Sequencing by: Agencourt Bioscience Corporation  
Clone distribution: NCI-CGAP clone distribution information can be  
found through the I.M.A.G.E. Consortium/LIML at:

http://image.lnl.gov  
Plate: L1CM3124 row: d column: 15  
High quality sequence scop: 614.  
Location/Qualifiers

## FEATURES

SOURCE

1. 830  
/organism="Xenopus laevis"  
/mol\_type="mRNA"  
/db\_xref="taxon:8355"  
/clone="IMAGE:6880576"  
/dev\_stage="metamorphosis stage 53"  
/clone\_lib="NICHID\_XCG\_Tad1"  
/note="Organ: Developing Tadpole; Vector: pDNR-LIB;  
Site 1: Sfi; Site 2: Sfi; 5' and 3' adaptors were used in  
cloning as follows: 5' adaptor sequence:  
5'-CACGCGCATATGCGC-3' and 3' adaptor sequence:  
5'-ATTCTAGAGCGCGAGCGCGACATG-dt(30)BN-3' (where B = A,  
C, or G and N = A, C, G or T). Average insert size 1.6 kb  
(range 0.9-3.0 kb). 15/15 colonies contained inserts by  
PCR. This library was enriched for full-length clones and  
was constructed by Clontech Laboratories (Palo Alto, CA)."

## ORIGIN

Query Match 85.5%; Score 18.8; DB 4; Length 830;  
Best Local Similarity 59.1%; Pred. No. 3e+02; Mismatches 2; Indels 0; Gaps 0;

Matches 13; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

Oy 1 UAGCAGCACAUAVUGUUUG 22

Db 336 TTGACGACATCATGCTTTG 357

RESULT 13  
LOCUS CNS032XX 893 bp DNA linear GSS 01-SEP-2000  
DEFINITION Tetraodon nigroviridis genome survey sequence T7 end of clone  
207124 of library G from Tetraodon nigroviridis, genomic survey  
sequence.

ACCESSION AL225438.1 GI:7884333  
VERSION AL225438  
KEYWORDS GSS: genome survey sequence.  
SOURCE Tetraodon nigroviridis  
ORGANISM Tetraodon nigroviridis  
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;  
Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;  
Acanthomorpha; Acanthopterygii; Percomorpha; Tetraodontiformes;  
Tetraodontidae; Tetraodontidae; Tetraodon.

REFERENCE 1 Roest Crolius,H., Jallou,O., Dasiya,C., Bouneau,L., Fisher,C.,  
Bernot,A., Fitzames,C., Wincker,P., Brothier,P., Quetier,F.,  
Saurin,W. and Weissenbach,J.  
Estimate of human gene number provided by genome-wide analysis  
using Tetraodon nigroviridis DNA sequence  
Nat. Genet. 25 (2), 235-238 (2000)

REFERENCE 2 Roest Crolius,H., Jallou,O., Dasiya,C., Ozouf-Costaz,C.,  
Fitzames,C., Fischer,C., Bouneau,L., Billault,A., Quetier,F.,  
Saurin,W., Bernot,A. and Weissenbach,J.  
Characterization and repeat analysis of the compact genome of the  
freshwater pufferfish Tetraodon nigroviridis  
Genome Res. 10 (7), 939-949 (2000)

JOURNAL PUBMED 10899143  
TITL 3 (bases 1 to 893)  
JOURNAL PUBMED 10899143  
TITL 3 (bases 1 to 893)  
JOURNAL PUBMED 10899143  
TITL 3 (bases 1 to 893)  
JOURNAL PUBMED 10899143  
TITL 3 (bases 1 to 893)

COMMENT Submitted (12-APR-2000) Genoscope - Centre National de Sequencage :  
BP 191 91006 EVRY cedex - FRANCE (E-mail : seqref@genoscope.cns.fr  
- Web : www.genoscope.cns.fr)  
This sequence is a single read and was generated as part of a large  
scale clone-end sequencing project of the Tetraodon nigroviridis  
genome. For more information, please take a look at  
http://www.genoscope.cns.fr/Tetraodon.

FEATURES Location/Qualifiers

## SOURCE

1. 893  
/organism="Tetraodon nigroviridis"  
/mol\_type="genomic DNA"  
/db\_xref="taxon:99883"  
/clone="207124"  
/clone\_lib="G"  
/note="Genoscope sequence ID : C0AG207DF12LP1  
end : T7"

## ORIGIN

Query Match 85.5%; Score 18.8; DB 14; Length 893;  
Best Local Similarity 63.6%; Pred. No. 3e+02; Mismatches 2; Indels 0; Gaps 0;

Matches 14; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

Oy 1 UAGCAGCACAUAVUGUUUG 22

Db 631 TAGCAGCACGAGATGTTTG 652

RESULT 14  
LOCUS DR975958/C 348 bp mRNA linear EST 03-JAN-2006  
DEFINITION Skin-13 B03 pDNR-LIB-SF11A A. transmontanus skin express library  
Acipenser transmontanus cDNA, mRNA sequence.

ACCESSION DR975958  
VERSION DR975958.1 GI:84178869  
KEYWORDS EST.  
SOURCE Acipenser transmontanus (white sturgeon)  
ORGANISM Acipenser transmontanus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Actinopterygii; Chondrostei; Acipenseriformes; Acipenseridae;  
Acipenser.

REFERENCE 1 (bases 1 to 348)  
AUTHORS Mariani,V., Malinverni,R. and Giuffr ,E.  
TITLE Transcription analysis of the American sturgeon (Acipenser  
transmontanus): pathways of gene expression in the spleen and skin  
unpublished (2005)  
COMMENT Contact: Valentina Mariani  
LIVESTOCK Genomics 1  
PFP-CERSA  
Via Einstein, Loc. Ca.na Codazza, 26900 Lodi (LO), Italy  
Email: valentina.mariani@tecnoparco.org.

## FEATURES

SOURCE

1. 348  
/organism="Acipenser transmontanus"  
/mol\_type="mRNA"  
/db\_xref="taxon:7904"  
/clone\_lib="A. transmontanus skin express library"  
/note="Organ: skin"

## ORIGIN

Query Match 83.6%; Score 18.4; DB 10; Length 348;  
Best Local Similarity 65.0%; Pred. No. 4.3e+02; Mismatches 1; Indels 0; Gaps 0;

Oy 1 UAGCAGCACAUAVUGUUUG 20

Db 229 TAGCAGCACATCATGTTTG 210

RESULT 15  
LOCUS AL694787/C 932 bp mRNA linear EST 21-MAR-2002  
DEFINITION AL694787 NAPI Anopheles gambiae cDNA clone NAPI-P23-F-06-5, mRNA  
sequence.

ACCESSION AL694787.1 GI:19614493  
VERSION AL694787  
KEYWORDS EST.  
SOURCE Anopheles gambiae (African malaria mosquito)  
ORGANISM Anopheles gambiae  
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;  
Neoptera; Endopterygota; Diptera; Nematocera; Culicoidae;  
Culicidae; Anophelinae; Anopheles.

REFERENCE 1 (bases 1 to 932)  
 AUTHORS Christophides,G.K., Blasas,K., Zdobnov,E.M., Carmouche,R., Benes,V.  
 TITLE Anopheles gambiae EST, European Molecular Biology Laboratory  
 JOURNAL Unpublished (2002)  
 COMMENT Contact: Christophides GK  
 Fotis C. Kafatos Laboratory  
 European Molecular Biology Laboratory  
 Meyerhofstrasse 1, 69117 Heidelberg, Germany  
 Tel: +49 6221 387-440  
 Fax: +49 6221 387-306  
 Email: christophe@embl-heidelberg.de  
 Plate: P23 row: F column: 06.

FEATURES  
 source 1..932  
 location/Qualifiers  
 /organism="Anopheles gambiae"  
 /mol\_type="mRNA"  
 /db\_xref="taxon:7165"  
 /clone="NAP1-P23-F-06-5"  
 /lab\_host="E. coli DH10B"  
 /clone\_lib="NAP1"  
 /note="Vector: pRTT3D-PacI; Site 1: NotI; Site 2: EcoRI;  
 ESTs sequenced from the T7 priming site that reads from  
 the 5' end of cDNA. The NAP1 is a directionally cloned and  
 normalized, oligo-T primed cDNA library constructed from a  
 mixture of Anopheles gambiae developmental stages  
 according to: Bonaldo, Lennon & Soares (1996):  
 Normalization and Subtraction: Two Approaches To  
 Facilitate Gene Discovery, Genome Research 6, 791-806."

ORIGIN

Query Match 83.6%; Score 18.4; DB 1; Length 932;  
 Best Local Similarity 65.0%; Pred. No. 4.8e+02;  
 Matches 13; Conservative 6; Mismatches 1; Indels 0; Gaps 0;  
 QY 2 AGCAGCACAUAAUGGCUUGU 21  
 |||||:|:|:|:  
 Db 297 AGCAGCACATATGCGTTTGT 278

Search completed: November 1, 2006, 22:21:01  
 Job time : 1026.17 secs

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GenCore version 5.1.9  
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: November 1, 2006, 19:02:55 ; Search time 105.39 Seconds  
(without alignments)  
1455.440 Million cell updates/sec

Title: US-10-706-798-3

Perfect score: 1 usgcagcacacaauguuugug 22

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 5244920 seqs, 3486124231 residues

Total number of hits satisfying chosen parameters: 10489840

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : N\_Geneseq\_8:\*  
1: geneseqn1980s:\*  
2: geneseqn1990s:\*  
3: geneseqn2000s:\*  
4: geneseqn2001as:\*  
5: geneseqn2001bs:\*  
6: geneseqn2002as:\*  
7: geneseqn2002bs:\*  
8: geneseqn2003as:\*  
9: geneseqn2003bs:\*  
10: geneseqn2003cs:\*  
11: geneseqn2003ds:\*  
12: geneseqn2004as:\*  
13: geneseqn2004bs:\*  
14: geneseqn2005s:\*  
15: geneseqn2006s:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	22	100.0	22	8 ADA00084	Ada00084 Human miR
2	22	100.0	22	8 ADA00122	Ada00122 Mouse miR
3	22	100.0	22	12 ADO17091	Ado17091 Human miR
4	22	100.0	22	12 ADP84065	Adp84065 Small nuc
5	22	100.0	22	13 ADR83121	Adr83121 Human miR
6	22	100.0	22	14 ADX03284	Adx03284 Antisense
7	22	100.0	22	14 ADX03184	Adx03184 Human miR
8	22	100.0	22	14 ADY30915	Ady30915 Micro RNA
9	22	100.0	22	14 ADX85423	Adx85423 Human/mou
10	22	100.0	22	14 ADZ20390	Adz20390 Human hem
11	22	100.0	22	14 AEC36205	Aec36205 Nucleotid
12	22	100.0	22	14 AED35921	Aed35921 Hsa-miR-1
13	22	100.0	22	14 AED35925	Aed35925 Hsa-miR-1
14	22	100.0	22	14 AED35991	Aed35991 Human miR
15	22	100.0	22	14 AED53385	Aed53385 Human tar
16	22	100.0	22	14 AED53470	Aed53470 Mouse tar
17	22	100.0	22	14 AEB04383	Aeb04383 Mouse miR
18	22	100.0	22	14 AEB04287	Aeb04287 Human miR

19	22	100.0	22	15 AEE26704	Aee26704 Hsa miR-1
20	22	100.0	22	15 AEE26638	Aee26638 hsa-miR-1
21	22	100.0	22	15 AEE26636	Aee26636 hsa-miR-1
22	22	100.0	22	15 AEF25393	Aef25393 Human mRN
23	22	100.0	22	15 AEF60709	Aef60709 Mouse miR
24	22	100.0	27	14 ADX03789	Adx03789 Human pri
25	22	100.0	30	15 AEF00087	Aef00087 DNA probe
26	22	100.0	40	14 AEB92912	Aeb92912 Human miR
27	22	100.0	70	14 ADX04205	Adx04205 Mouse pri
28	22	100.0	83	12 ADO17089	Ado17089 Human miR
29	22	100.0	83	14 AEB92620	Aeb92620 Human miR
30	22	100.0	83	14 AED35990	Aed35990 Human miR
31	22	100.0	83	15 AEE26703	Aee26703 Hsa miR-1
32	22	100.0	83	15 AEE99350	Aee99350 Human miR
33	22	100.0	83	15 AEE99543	Aee99543 Mouse miR
34	22	100.0	108	14 AEB92619	Aeb92619 Human miR
35	22	100.0	110	14 ADX03045	Adx03045 Human pri
36	22	100.0	110	14 ADX03080	Adx03080 Human pri
37	22	100.0	310	14 ADX03808	Adx03808 Human gen
38	22	100.0	4214	4 AAK72317	AAK72317 Human, imm
39	22	95.5	21	8 ADA00022	Ada00022 D. melano
40	21	95.5	21	14 ADX04045	Adx04045 Human mat
41	21	95.5	21	14 ADX04624	Adx04624 Antisense
42	18.8	85.5	7808	14 ADZ45650	Adz45650 Human pap
43	18.8	85.5	7824	14 ADZ45651	Adz45651 Human pap
44	18	81.8	23	12 ADO17093	Ado17093 Human miR
45	17.8	80.9	21	14 ADX85401	Adx85401 Human/ mo

ALIGNMENTS

RESULT 1  
ADA00084  
ID ADA00084 standard; RNA; 22 BP.  
AC ADA00084;  
DT 06-NOV-2003 (first entry)  
XX  
DE Human miRNA sequence miR-15 SEQ ID NO:81.  
XX  
KW Drosophila melanogaster; human; mouse; microRNA; miRNA; cytosolic;  
KW gene therapy; diagnostic; therapeutic; developmental modulator;  
KW pathogenic modulator; cancer; B-cell chronic leukaemia;  
KW tissue reprogramming; ss.  
XX  
OS Homo sapiens.  
XX  
XX WO2003029459-A2.  
XX PN  
XX 10-APR-2003.  
XX PD  
XX  
PF 27-SEP-2002; 2002WO-EP010881.  
XX  
XX 28-SEP-2001; 2001EP-00123453.  
PR 22-MAR-2002; 2002EP-00006712.  
PR 26-JUL-2002; 2002EP-00016772.  
XX  
PA (PLAC ) MAX PLANCK GES FOERDERUNG.  
XX  
XX Tuschl T, Lagos-Quintana M, Lendeckel W, Meyer J, Rauhut R;  
PI WPL; 2003-381637/36.  
XX DR  
XX New nucleic acid molecule for diagnostic and therapeutic applications and  
PT as a marker or a modulator of developmental or pathogenic processes, e.g.  
PT cancer, comprises microRNAs of a Drosophila melanogaster, a human or a  
PT mouse.  
XX  
PS Claim 1; Page 28; 138pp; English.  
XX  
CC The present invention describes an isolated nucleic acid molecule (1)

CC comprising a nucleotide sequence of *Drosophila melanogaster*, human or  
CC mouse microRNAs (miRNAs), or their precursors, a complement of it, a  
CC nucleotide sequence that has an affinity of at least 80 % to them or a  
CC nucleotide sequence that hybridises under stringent conditions to them.  
CC Also described: (1) a pharmaceutical composition containing the nucleic  
CC acid and, optionally, a carrier; and (2) identifying miRNA molecules or  
CC precursor molecules, comprising ligating 5'- and 3'-adapter molecules to  
CC the ends of a size-fractionated RNA population, reverse transcribing the  
CC adapter-containing RNA population and characterising the reverse  
CC transcription products. (1) has cytostatic activity, and can be used in  
CC gene therapy. The pharmaceutical composition is useful for diagnostic and  
CC therapeutic applications, and as a marker or a modulator of developmental  
CC or pathogenic processes, particularly of cancer (e.g. B-cell chronic  
CC leukaemia) or gene expression. The miRNA molecules may also be used in  
CC tissue reprogramming procedures. The present sequence represents an miRNA  
CC sequence from the present invention.

QY Sequence 22 BP; 6 A; 3 C; 6 G; 0 T; 7 U; 0 Other;  
XX

Query Match 100.0%; Score 22; DB 8; Length 22;  
Best Local Similarity 100.0%; Pred. No. 0.35;  
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 UAGCAGCACAUAAUGGUGUG 22  
Db 1 UAGCAGCACAUAAUGGUGUG 22  
|||||

RESULT 2  
ADA00122  
ID ADA00122 standard; RNA; 22 BP.  
XX  
AC ADA00122;  
XX  
XX 06-NOV-2003 (first entry)  
DT  
XX Mouse miRNA sequence mir-15a SEQ ID NO:119.  
DE  
XX  
XX *Drosophila melanogaster*; human; mouse; microRNA; miRNA; cytostatic;  
KW gene therapy; diagnostic; therapeutic; developmental modulator;  
KW pathogenic modulator; cancer; B-cell chronic leukaemia;  
KW tissue reprogramming; ss.  
XX  
XX Mus sp.  
OS  
XX WO2003029459-A2.  
PN  
XX 10-APR-2003.  
PD  
XX  
XX 27-SEP-2002; 2002WO-EP010881.  
PF  
XX  
XX 28-SEP-2001; 2001EP-00123453.  
PR 22-MAR-2002; 2002EP-00006712.  
PR 26-JUL-2002; 2002EP-00016772.  
XX  
XX (PLAC ) MAX PLANCK GES FOERDERUNG.  
PA  
XX  
XX Tuschl T, Lagos-Quintana M, Lendeckel W, Meyer J, Raubut R;  
PI  
XX WPI; 2003-381637/36.  
DR  
XX

XX New nucleic acid molecule for diagnostic and therapeutic applications and  
PT as a marker or a modulator of developmental or pathogenic processes, e.g.  
PT cancer, comprises microRNAs of a *Drosophila melanogaster*, a human or a  
PT mouse.  
XX  
XX Claim 1; Page 31; 138pp; English.  
PS  
XX The present invention describes an isolated nucleic acid molecule (I)  
CC comprising a nucleotide sequence of *Drosophila melanogaster*, human or  
CC mouse microRNAs (miRNAs), or their precursors, a complement of it, a  
CC nucleotide sequence that has an affinity of at least 80 % to them or a  
CC nucleotide sequence that hybridises under stringent conditions to them.

CC Also described: (1) a pharmaceutical composition containing the nucleic  
CC acid and, optionally, a carrier; and (2) identifying miRNA molecules or  
CC precursor molecules, comprising ligating 5'- and 3'-adapter molecules to  
CC the ends of a size-fractionated RNA population, reverse transcribing the  
CC adapter-containing RNA population and characterising the reverse  
CC transcription products. (1) has cytostatic activity, and can be used in  
CC gene therapy. The pharmaceutical composition is useful for diagnostic and  
CC therapeutic applications, and as a marker or a modulator of developmental  
CC or pathogenic processes, particularly of cancer (e.g. B-cell chronic  
CC leukaemia) or gene expression. The miRNA molecules may also be used in  
CC tissue reprogramming procedures. The present sequence represents an miRNA  
CC sequence from the present invention.

QY Sequence 22 BP; 6 A; 3 C; 6 G; 0 T; 7 U; 0 Other;  
XX

Query Match 100.0%; Score 22; DB 8; Length 22;  
Best Local Similarity 100.0%; Pred. No. 0.35;  
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 UAGCAGCACAUAAUGGUGUG 22  
Db 1 UAGCAGCACAUAAUGGUGUG 22  
|||||

RESULT 3  
AD017091  
ID AD017091 standard; RNA; 22 BP.  
XX  
AC AD017091;  
XX  
XX 12-AUG-2004 (first entry)  
DT  
XX  
XX Human miR15 processed RNA sequence SeqID3.  
DE  
XX  
XX miR15; miR16; cancer; proliferation; cancer cell; cytostatic;  
KW gene therapy; chronic lymphocytic leukaemia; prostate cancer; micro RNA;  
KW chromosome 13q14; human; ss.  
XX  
XX Homo sapiens.  
OS  
XX WO2004043387-A2.  
PN  
XX 27-MAY-2004.  
PD  
XX  
XX 12-NOV-2003; 2003WO-US035777.  
PF  
XX  
XX 13-NOV-2002; 2002US-0425864P.  
PR 09-MAY-2003; 2003US-0469464P.  
PR  
XX (UYJE-) UNIV JEFFERSON THOMAS.  
PA  
XX  
XX Croce CM, Calin GA;  
PI  
XX WPI; 2004-400825/37.  
DR  
XX

XX Treating an miR15 or miR16 mediated cancer, i.e. chronic lymphocytic  
PT leukemia or prostate cancer, comprises administering to the subject an  
PT miR15 or miR16 gene product.  
PT  
XX  
XX Claim 64; SEQ ID NO 3; 73pp; English.  
PS  
XX

XX This invention relates to a novel method of treating an miR15 or miR16  
CC mediated cancer in a subject which comprises administering to the subject  
CC an amount of an isolated miR15 or miR16 gene product such that  
CC proliferation of miR15 or miR16 mediated cancer cells is inhibited. The  
CC miR15 and miR16 micro RNA genes are localised to 13q14 in humans, a  
CC region that is deleted in a significant portion of subjects suffering  
CC from chronic lymphocytic leukaemia or prostate cancer. The products of  
CC the miR15 and miR16 genes have also been found to inhibit the neoplastic  
CC or tumourigenic growth of chronic lymphocytic leukaemia or prostate  
CC cancer cells. The invention may be useful for the production of compounds  
CC with a cytostatic activity. In addition the invention may also be useful  
CC for gene therapy using the miR15 or miR16 gene product. The methods and

CC compositions are useful in diagnosing and treating miR15 or miR16  
CC mediated cancer, i.e. chronic lymphocytic leukemia or prostate cancer.  
CC The present sequence is that of the human miR15 processed RNA sequence  
CC which is used in the method of the invention.

XX Sequence 22 BP; 6 A; 3 C; 6 G; 0 T; 7 U; 0 Other;

Query Match 100.0%; Score 22; DB 12; Length 22;  
Best Local Similarity 100.0%; Pred. No. 0.35;  
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 UAGCAGCACAUAUGGUUG 22  
Db 1 UAGCAGCACAUAUGGUUG 22

RESULT 4  
ADP84065  
ID ADP84065 standard; RNA; 22 BP.

XX ADP84065;  
XX 23-SEP-2004 (first entry)

XX Small nucleotide detection-related human miRNA SeqID62.

XX small nucleic acid detection; interfering RNA; detection structure;  
XX miRNA; micro RNA; siRNA; short interfering RNA; human; ss.

XX Homo sapiens.

XX WO2004057017-A2.

XX 08-JUN-2004.

XX 18-DEC-2003; 2003WO-US041549.

XX 18-DEC-2002; 2002US-0434518P.

XX 18-DEC-2003; 2003US-00740256.

XX (THIR-) THIRD WAVE TECHNOLOGIES INC.

XX Dahlberg JE, Allawi HT, Lyamichev V, Neri BP, Olson-Munoz M,  
PI Chehak L, Olson SM;

XX WPI; 2004-500306/47.

XX Detecting small nucleic acids, such as miRNA and siRNA, by hybridizing an  
PT interfering RNA target to at least one nucleic acid that contains  
PT sequence not complementary to the interfering RNA target to generate a  
PT detection structure.

XX Example 2; SEQ ID NO 62; 97pp; English.

XX This invention relates to a novel method of detecting small nucleic acids  
CC which comprises hybridizing an interfering RNA target to at least one  
CC nucleic acid that contains sequence not complementary to the interfering  
CC RNA target to generate a detection structure, and detecting the detection  
CC structure. The present invention is useful for detecting and  
CC characterizing interfering RNA such as miRNAs (micro RNAs) and siRNAs  
CC (short interfering RNAs), and quantifying interfering RNA expression. The  
CC present sequence is that of an oligonucleotide which was used in the  
CC exemplification of the invention.

XX Sequence 22 BP; 6 A; 3 C; 6 G; 0 T; 7 U; 0 Other;

Query Match 100.0%; Score 22; DB 12; Length 22;  
Best Local Similarity 100.0%; Pred. No. 0.35;  
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 UAGCAGCACAUAUGGUUG 22  
Db 1 UAGCAGCACAUAUGGUUG 22

RESULT 5  
ADR83121  
ID ADR83121 standard; RNA; 22 BP.

XX ADR83121;

XX 02-DEC-2004 (first entry)

DE Human miRNA oligo that modulates expression of human target mRNA Seq 23.

XX human; ss; miRNA; microRNA; ontogenesis; cell therapy; cancer;  
XX immune disease; nerve disorder; amyotrophic lateral sclerosis;  
XX Parkinson's disease; Alzheimer's disease; inflammatory disease;  
XX siRNA silencing precursor; cytostatic; immunosuppressive; neurotropic;  
XX neuroprotective; antiinflammatory; immunotherapy.

XX Homo sapiens.

XX WO2004076622-A2.

XX 10-SEP-2004.

XX 10-FEB-2004; 2004WO-JP001433.

XX 10-FEB-2003; 2003US-044829P.

XX (NAD-) NAT INST ADVANCED IND SCI & TECHNOLOGY.

XX Taira K, Kawasaki H;

XX WPI; 2004-653393/63.

XX Modulating expression of a target gene in a cell, for treating cancer, an  
PT immune disease, or a nerve disorder, comprises introducing into the cell  
PT a polynucleotide that forms a duplex region with an mRNA transcribed from  
PT the target gene.

XX Claim 6; SEQ ID NO 23; 865pp; English.

XX This invention relates to a novel method for modulating the expression of  
CC a target gene in a cell. Specifically, it refers to the introduction into  
CC a cell of a polynucleotide that forms a duplex region with an mRNA  
CC transcribed from the target gene, where the duplex region comprises a  
CC mammalian miRNA target region i.e. a non-coding microRNA (miRNA) that  
CC regulates mRNA at a post-transcriptional level. The present invention  
CC describes a method for controlling ontogenesis of a mammal, function of a  
CC mammalian cell, differentiation of a mammalian cell or viability of a  
CC mammalian cell in the post-transcriptional phase, which comprises  
CC introducing a plasmid vector comprising a promoter and nucleic acid  
CC molecule expressing an mRNA or siRNA silencing precursor to the mRNA.  
CC Accordingly, it provides a cell therapy method for treating cancer,  
CC immune disease, nerve disorder (e.g. amyotrophic lateral sclerosis,  
CC Parkinson's disease, or Alzheimer's disease) or an inflammatory disease  
CC by introducing into the cell the miRNA, siRNA silencing precursor to the  
CC miRNA or the plasmid vector. As such, they can be developed into  
CC pharmaceutical compositions that exhibit cytostatic, immunosuppressive,  
CC neurotropic, neuroprotective and antiinflammatory activities and hence can  
CC be used for immunotherapy. This oligonucleotide sequence is a human miRNA  
CC oligo that modulates expression of a target human gene, given in an  
CC exemplification of the invention.

XX Sequence 22 BP; 6 A; 3 C; 6 G; 0 T; 7 U; 0 Other;

Query Match 100.0%; Score 22; DB 13; Length 22;  
Best Local Similarity 100.0%; Pred. No. 0.35;  
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 UAGCAGCACAUAUGGUUG 22  
Db 1 UAGCAGCACAUAUGGUUG 22

RESULT 6  
ADX03284/C  
ID ADX03284 standard; DNA; 22 BP.  
XX  
XX  
AC ADX03284;  
XX  
DT 05-MAY-2005 (first entry)  
XX  
DE Antisense oligonucleotide targeting a human miRNA, ISIS27951.  
XX  
XX Antisense oligonucleotide; ss; RNA interference; gene silencing;  
KW Cytostatic; Antidiabetic; Anorectic; Antilipemic; Antiarteriosclerotic;  
KW Hypotensive; Neuroprotective; Nootropic; Antiangiogenic; Anabolic;  
KW Eating-Disorders-Gen.; hyperproliferation; cancer; neoplasm;  
KW angiogenesis disorder; cardiovascular disease;  
KW non-insulin dependent diabetes; endocrine disease;  
KW gastrointestinal disease; metabolic disorder; obesity;  
KW nutritional disorder; hyperlipidemia; atherosclerosis;  
KW hyperextension; anorexia nervosa; nutritional disorder;  
KW psychiatric disorder; Alzheimers disease; degeneration;  
KW neurological disease; nervous system injury; neurodegenerative disease;  
KW neurofibrillary disorder; 2'-O-methoxyethyl; 2-MOE; phosphorothioate.  
XX  
XX Homo sapiens.  
OS  
XX  
XX WO2005013901-A2.  
XX  
XX 17-FEB-2005.  
PD  
XX  
XX 30-JUL-2004; 2004WO-US025300.  
PE  
XX  
XX 31-JUL-2003; 2003US-0492056P.  
PR 31-OCT-2003; 2003US-0516303P.  
PR 19-DEC-2003; 2003US-0531596B.  
PR 14-APR-2004; 2004US-0562417P.  
XX  
XX  
XX (ISIS-) ISIS PHARM INC.  
PA  
XX  
PI Esau C, Lollo B, Bennett CF, Freier SM, Griffey RH, Baker BF;  
PI Vickers T, Marcusson EG, Koller E, Swayze EE, Jain R, Bhat B;  
PI Peralta E;  
XX  
XX WPI; 2005-163123/17.  
DR  
XX  
XX New oligomeric compound that can hybridize with or sterically interfere  
PT with nucleic acid molecules comprising or encoding small non-coding RNA  
PT targets, useful for treating e.g., cancer and diabetes.  
XX  
XX  
XX Example 5; SEQ ID NO 369; 854bp; English.  
PS  
XX  
XX The invention relates to an oligomeric compound comprising a first region  
CC and a second region, where at least one region contains a modification,  
CC and a portion of the oligomeric compound is targeted to a small non-  
CC coding RNA target nucleic acid that is miRNA (micro-RNA), or its  
CC precursor (primary-miRNA, pri-miRNA). Also included are a composition  
CC comprising a first oligomeric compound and a second oligomeric compound  
CC (where at least one of the oligomeric compounds contains a modification,  
CC at least a portion of the first oligomeric compound is capable of  
CC hybridizing with at least a portion of the second oligomeric compound,  
CC and at least a portion of the first oligomeric compound is targeted to a  
CC small non-coding RNA target nucleic acid), a pharmaceutical composition  
CC comprising the composition cited above (and a carrier), a kit or assay  
CC device comprising the composition, modulating the expression of a small  
CC non-coding RNA target nucleic acid in a cell (or tissue or animal),  
CC treating or preventing a disease or disorder associated with a small non-  
CC coding RNA target nucleic acid, treating a condition in an animal,  
CC treating or preventing a disease or disorder associated with CD36,  
CC methods of screening an oligomeric compound for an effect on miRNA  
CC signaling, methods of screening a miRNA precursor for an effect in miRNA  
CC signaling, methods of modulating translation (or apoptosis, conversion of  
CC a precursor miRNA into miRNA, or cellular differentiation), identifying  
CC an RNA transcript bound to a small non-coding RNA, arresting (or

CC	delaying] entry of a cell at the G2/M phase, interfering with chromosome segregation, a method of triggering apoptosis, detecting a miRNA precursor, identifying a miRNA target, modulating cellular differentiation, treating a condition associated with adipocyte differentiation in an animal, treating/preventing a disease/disorder associated with aberrant regulation of the cell cycle by miRNAs, maintaining a pluripotent stem cell and identifying a small non-coding RNA binding site. The oligomeric compound is targeted to a region flanking a Drosophila cleavage site within a pri-miRNA. It stimulates an increase in expression of a pri-miRNA. The compounds and compositions are useful for treating a disease or disorder resulting from chromosomal non-cc junction, altered methylation, acetylation, or pseudouridylation state of chromosomes, such as a hyperproliferative condition (e.g. cancer, neoplasia or angiogenesis), diabetes (Type 2 diabetes), obesity, Cc hyperlipidemia, atherosclerosis, arteriosclerosis, hypertension, anorexia, Alzheimer's disease, a central nervous system injury or neurodegenerative disorder. The present sequence is an antisense oligonucleotide targeting an miRNA.
CC	
XX	
SQ	Sequence 22 BP; 7 A; 6 C; 3 G; 6 T; 0 U; 0 Other;
Query Match	100.0%; Score 22; DB 14; Length 22;
Best Local Similarity	68.2%; Pred. No. 0.33;
Matches 15; Conservative 7; Mismatches 0; Indels 0; Gaps 0;	
Oy	1 UAGCAGCACAUATGCUUGG 22      ::  ::   Db      22 TAGCAGCACATMAATGGTTGTG 1
RESULT 7	
ID	ADX03184 standard; RNA; 22 BP.
XX	
AC	ADX03184;
XX	
DT	05-MAY-2005 (first entry)
DE	
XX	Human microRNA (miRNA) mir-15a-l.
KM	MicronRNA; ds; RNA interference; gene silencing; cytostatic; Antidiabetic;
KW	Anorectic; Antilipemic; Antiarteriosclerotic; Hypotensive;
KM	Neuroprotective; Nocotropic; Antiangiogenic; Anabolic;
KW	Eating-Disorders-Gen.; hyperproliferation; cancer; neoplasm;
KW	angiogenesis disorder; cardiovascular disease;
KW	non-insulin dependent diabetes; endocrine disease;
KM	gastrointestinal disease; metabolic disorder; obesity;
KW	nutritional disorder; hyperlipidemia; atherosclerosis; atherogenesis;
KM	hyperension; anorexia nervosa; nutritional disorder;
KW	psychiatric disorder; Alzheimers disease; degeneration;
KW	neurological disorder; nervous system injury; neurodegenerative disease;
XX	
OS	Homo sapiens.
XX	
PN	WO2005013901-A2.
XX	
PD	17-FEB-2005.
XX	
PF	30-JUL-2004; 2004WO-US025300.
XX	
PR	31-JUL-2003; 2003US-0492056P.
PR	31-OCT-2003; 2003US-0516303P.
PR	19-DEC-2003; 2003US-0531596P.
PR	14-APR-2004; 2004US-0562417P.
XX	
PA	(ISIS-) ISIS PHARM INC.
PI	Esau C, Lollo B, Bennett CF, Freier SM, Griffey RH, Baker BF;
PI	Vickere T, Marcusson EG, Koller E, Swayze GE, Jain R, Bhat B;
XX	Peralta E;
DR	WPI; 2005-163123/17.



XX New oligomeric compound that can hybridize with or sterically interfere  
 PT with nucleic acid molecules comprising or encoding small non-coding RNA  
 PT targets, useful for treating e.g., cancer and diabetes.  
 XX  
 PS Example 4; SEQ ID NO 269; 854bp; English.  
 XX  
 CC The invention relates to an oligomeric compound comprising a first region  
 CC and a second region, where at least one region contains a modification,  
 CC and a portion of the oligomeric compound is targeted to a small non-  
 CC coding RNA target nucleic acid that is miRNA (micro-RNA), or its  
 CC precursor (primary-miRNA, pri-miRNA). Also included are a composition  
 CC comprising a first oligomeric compound and a second oligomeric compound  
 CC (where at least one of the oligomeric compounds contains a modification,  
 CC hybridizing with at least a portion of the second oligomeric compound,  
 CC and at least a portion of the first oligomeric compound is targeted to a  
 CC small non-coding RNA target nucleic acid), a pharmaceutical composition  
 CC comprising the composition cited above (and a carrier), a kit or assay  
 CC device comprising the composition, modulating the expression of a small  
 CC non-coding RNA target nucleic acid in a cell (or tissue or animal),  
 CC treating or preventing a disease or disorder associated with a small non-  
 CC coding RNA target nucleic acid, treating a condition in an animal,  
 CC treating or preventing a disease or disorder associated with CR36,  
 CC methods of screening an oligomeric compound for an effect on miRNA  
 CC signaling, methods of screening a miRNA precursor for an effect in miRNA  
 CC signaling, methods of modulating translation (or apoptosis, conversion of  
 CC a precursor miRNA into miRNA, or cellular differentiation), identifying  
 CC an RNA transcript bound to a small non-coding RNA, arresting (or  
 CC delaying) entry of a cell at the G2/M phase, interfering with chromosome  
 CC segregation, a method of triggering apoptosis, detecting a miRNA  
 CC precursor, identifying a miRNA target, modulating cellular  
 CC differentiation, treating a condition associated with adipocyte  
 CC differentiation, treating/preventing a disease/disorder  
 CC associated with aberrant regulation of the cell cycle by miRNAs,  
 CC maintaining a pluripotent stem cell and identifying a small non-coding  
 CC RNA binding site. The oligomeric compound is targeted to a region  
 CC flanking a Drosophila cleavage site within a pri-miRNA. It stimulates an  
 CC increase in expression of a pri-miRNA. The compounds and compositions are  
 CC useful for treating a disease or disorder resulting from chromosomal non-  
 CC disjunction, altered methylation, acetylation, or pseudouridylation state  
 CC of chromosomes, such as a hyperproliferative condition (e.g., cancer,  
 CC neoplasia or angiosarcoma), diabetes (Type 2 diabetes), obesity,  
 CC hyperlipidemia, atherosclerosis, atherogenesis, hypertension, anorexia,  
 CC Alzheimer's disease, a central nervous system injury or neurodegenerative  
 CC disorder. The present sequence is a mature miRNA of the invention.  
 CC  
 XX  
 XX Sequence 22 BP; 6 A; 3 C; 6 G; 0 T; 7 U; 0 Other;  
 SQ  
 Query Match 100.0%; Score 22; DB 14; Length 22;  
 Best Local Similarity 100.0%; Pred. No. 0.35;  
 Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Oy 1 UAGCAGCACAUAUGGUGUG 22  
 Db 1 UAGCAGCACAUAUGGUGUG 22  
 RESULT 8  
 ID ADY30915 standard; DNA; 22 BP.  
 XX  
 XX ADY30915;  
 XX  
 DT 05-MAY-2005 (first entry)  
 XX  
 XX Micro RNA (miRNA)-related DNA targeted to human E2F3/E1F5A2/FOXAI -SEQ 7.  
 XX  
 XX miRNA; micro RNA; RNA interference; gene silencing;  
 XX E2F transcription factor 3; E2F3;  
 XX eukaryotic translation initiation factor 5A2; E1F5A2; forkhead box A1;  
 XX FOXAI; hepatocyte nuclear factor 3 alpha; HNF3alpha; ss.

OS Homo sapiens.  
 XX  
 XX WO2005017145-A1.  
 XX  
 XX 24-FEB-2005.  
 XX  
 XX 12-AUG-2004; 2004NO-JP011624.  
 XX  
 XX 13-AUG-2003; 2003JP-00293129.  
 XX  
 XX (NIBI-) JAPAN BIOLOGICAL INFORMATICS CONSORTIUM.  
 XX (BITS-) BITS CO LTD.  
 XX (NAAD-) NAT INST ADVANCED IND SCI & TECHNOLOGY.  
 XX  
 XX Barrero Roberto Antonio, Tamura T, Imanishi T, Gojibori T;  
 XX Taira K, Kawasaki H;  
 XX  
 XX WPI; 2005-196094/20.  
 XX  
 XX Identifying a gene under regulation of functional RNA, involves setting  
 PT ambiguity of different standards in conserved and unconserved region of  
 PT functional RNA, searching for gene which is complementary to functional  
 PT RNA.  
 XX  
 XX Claim 8; SEQ ID NO 7; 38bp; Japanese.  
 PS  
 XX  
 XX The invention relates to a novel method for identifying or presuming a  
 CC functional miRNA (micro RNA) molecule of base length of 16-25 and a gene  
 CC which is regulated as a result of targeting by the miRNA. The method  
 CC comprises determining and classifying the base sequences of functional  
 CC RNA molecules into conserved and unconserved regions, setting ambiguities  
 CC of different standards in these regions and searching for a candidate  
 CC gene which has a base sequence complementary to the functional RNA  
 CC molecule. The method of the invention may be useful for identifying a  
 CC gene whose expression is under regulation by a functional RNA molecule of  
 CC base length of 16-25. The method is thus useful for developing treatments  
 CC for a disease or for treating a disease by controlling the biological  
 CC function of the target gene. The current sequence is that of a micro RNA  
 CC (miRNA)-related DNA of the invention which is targeted to a human gene.  
 CC Specifically, human E2F transcription factor 3 (E2F3), eukaryotic  
 CC translation initiation factor 5A2 (E1F5A2) and forkhead box A1 (FOXAI,  
 CC hepatocyte nuclear factor 3 alpha, HNF3alpha) are referred to in claim 9.  
 XX  
 XX Sequence 22 BP; 6 A; 3 C; 6 G; 7 T; 0 U; 0 Other;  
 SQ  
 Query Match 100.0%; Score 22; DB 14; Length 22;  
 Best Local Similarity 68.2%; Pred. No. 0.35;  
 Matches 15; Conservative 7; Mismatches 0; Indels 0; Gaps 0;  
 Oy 1 UAGCAGCACAUAUGGUGUG 22  
 Db 1 TAGCAGCACAUAATGTTTGG 22  
 RESULT 9  
 ID ADX85423 standard; RNA; 22 BP.  
 XX  
 XX ADX85423;  
 XX  
 DT 05-MAY-2005 (first entry)  
 XX  
 XX Human/mouse miR-15 microRNA that binds hOMP1 target mRNA.  
 XX  
 XX microRNA recognition element; MRE; bioinformatics; gene expression; ss.  
 XX  
 XX Homo sapiens.  
 XX  
 XX Mus sp.  
 XX  
 XX Key Location/Qualifiers  
 FT misc\_binding 1..17  
 FT /\*tag= a  
 FT /bound\_molecy= "hOMP1 MRE"

```
FT /note= "Forms double stranded region with nucleotides 17-
FT 1"
XX
XX MO2005017111-A2.
XX
XX 24-FEB-2005.
XX
XX 15-JUL-2004; 2004MO-US022934.
XX
XX 15-JUL-2003; 2003US-0487321P.
XX
XX (UTYPE-) UNIV PENNSYLVANIA.
XX
XX HatziGeorgiou AG, Mourelatos Z;
XX
XX WPI; 2005-182352/19.
XX
XX Identifying a microRNA-recognition element by comparing the degree of
XX complementarity of a microRNA nucleotide sequence to an mRNA sequence.
XX
XX Example 1; Fig 6; 51pp; English.
XX
XX This invention relates to a novel method for identifying a microRNA-
XX recognition element (MRE). Specifically, it refers to comparing the
XX degree of complementarity of a microRNA nucleotide sequence (miRNA) to an
XX mRNA target sequence in order to identify the presence of a sequence that
XX is indicative of an MRE for the microRNA. In particular, it refers to
XX miRNA-MRE recognition rules that allow prediction of human and mouse
XX miRNA targets. The present invention also describes determining the free
XX energy of the microRNA bound to the selected 3' untranslated region of an
XX mRNA sequence. Furthermore, it provides an
XX oligonucleotide that is synthesized having the sequence of the generated
XX microRNA and contacting the microRNA with a cell expressing the mRNA in
XX order to down regulate expression of that mRNA. It describes a system for
XX identifying a microRNA-recognition element as comprising an interface for
XX inputting mRNA sequences, a database of mRNA sequences or a link for
XX connecting to a remote data input interface, data or a database of mRNA
XX sequences, and a processor with instructions for comparing mRNA sequences
XX to microRNA sequences to identify an MRE. This oligonucleotide is a
XX human/ mouse microRNA sequence that binds to a microRNA-recognition
XX element of the target mRNA given in an exemplification of the invention.
XX
XX Sequence 22 BP; 6 A; 3 C; 6 G; 0 T; 7 U; 0 Other;
XX
XX Query Match 100.0%; Score 22; DB 14; Length 22;
XX Best Local Similarity 100.0%; Pred. No. 0.35;
XX Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1 UAGCAGCACAUAAUGGUTUGUG 22
XX |||||
XX 1 UAGCAGCACAUAAUGGUTUGUG 22
XX
XX Db
XX
XX RESULT 10
XX ADZ20390
XX ADZ20390 standard; RNA; 22 BP.
XX
XX AC ADZ20390;
XX
XX DT 16-JUN-2005 (first entry)
XX
XX DE Human hematopoietic miRNA, miR-15a Bl_F06-2, SEQ ID NO: 9 #2.
XX
XX KW Expression; gene therapy; hematological disease; cancer; infection;
XX cytotoxic; antibacterial; virucide; fungicide; antimicrobial; neoplasm;
XX ss; micro RNA; miRNA.
XX
XX OS Homo sapiens.
XX
XX PN US2005075492-A1.
XX
XX PD 07-APR-2005.
XX
```

```
PF 06-AUG-2004; 2004US-00913288.
XX
XX 07-AUG-2003; 2003US-0493239P.
XX
XX (WHED ) WHITEHEAD INST BIOMEDICAL RES.
XX
XX Chen C, Bartel D, Lodish H;
XX
XX WPI; 2005-283812/29.
XX
XX DR
XX
XX PT New precursor microRNA molecule comprises isolated nucleic acid
XX comprising a stem-loop structure and a microRNA flanking sequence, useful
XX for treating hematopoietic disorders including cancers, viral, bacterial,
XX or fungal infections.
XX
XX PS Disclosure; SEQ ID NO 9; 39pp; English.
XX
XX CC The present invention relates to a precursor microRNA (miRNA) molecule
XX comprising a stem-loop structure and a microRNA flanking sequence. The
XX invention also provides a method for producing miRNA. The invention is
XX useful for treating hematopoietic disorders including cancers, e.g.
XX leukemia, lymphoma, bladder cancer, brain cancer, head and neck cancer,
XX prostate cancer, or rectal cancer and infections, e.g. viral, bacterial,
XX or fungal infections. The precursor miRNA is useful for regulating the
XX expression of protein-coding genes at the posttranscriptional level and
XX also be used as therapeutics and as research tools, e.g. analyzing gene
XX function. The invention is useful in gene therapy. The present sequence
XX is the human hematopoietic miRNA plays a role in hematopoiesis. The
XX current sequence is that of the human miRNA which is located on
XX chromosome 13q13.3. Note: The present sequence is the SEQ ID NO: 9 which
XX is shown on page 7. This sequence differs from the SEQ ID NO: 9 given in
XX the sequence listing (see ADZ20370).
XX
XX SQ Sequence 22 BP; 6 A; 3 C; 6 G; 0 T; 7 U; 0 Other;
XX
XX Query Match 100.0%; Score 22; DB 14; Length 22;
XX Best Local Similarity 100.0%; Pred. No. 0.35;
XX Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1 UAGCAGCACAUAAUGGUTUGUG 22
XX |||||
XX 1 UAGCAGCACAUAAUGGUTUGUG 22
XX
XX Db
XX
XX RESULT 11
XX AEC36205
XX ID AEC36205 standard; RNA; 22 BP.
XX
XX AC AEC36205;
XX
XX DT 03-NOV-2005 (first entry)
XX
XX DE Nucleotide sequence of known human miRNA #9.
XX
XX KW RNA interference; gene silencing; microRNA; miRNA; gene therapy;
XX Huntingtons chorea; cardiovascular disease; cardiovascular gen.;
XX immune disorder; immunomodulator; liver disease; hepatotropic;
XX gastrointestinal disease; viral infection; virucide; infection; pain;
XX analgesic; neurological disease; metabolic disorder; metabolic;
XX metabolic disorder; ss.
XX
XX OS Homo sapiens.
XX
XX PN WO2005078096-A2.
XX
XX PD 25-AUG-2005.
XX
XX PF 09-FEB-2005; 2005WO-US004206.
XX
XX PR 09-FEB-2004; 2004US-0543467P.
XX
XX PA (UTMA-) UNIV MASSACHUSETTS.
XX
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PI Zamore PD, Aronin N, Broderick J;  
XX WPI; 2005-571602/58.  
XX  
PT New RNA-silencing agent comprising an mRNA targeting moiety, a linking  
PT moiety, and a miRNA recruiting moiety, useful for repressing translation  
PT of a target mRNA for treating Huntington's disease.  
XX  
XX Disclosure; Page 11; 80pp; English.  
XX  
CC The specification describes a RNA-silencing agent, comprising an mRNA  
CC targeting moiety, a linking moiety, and a microRNA (miRNA) recruiting  
CC moiety. The RNA-silencing agent of the invention is useful for the  
CC manufacture of medicament for repressing mutant gene expression, such as  
CC repressing translation of a target mRNA. It is useful for treating  
CC Huntington's disease in this manner. The agent may also be useful in the  
CC treatment of one or more of cellular proliferative and/or differentiative  
CC disorders, cardiovascular disorders, immune disorders, hematopoietic  
CC disorders, liver disorders, viral diseases, pain or metabolic disorders.  
CC AEC36197-AEC36300 represent known human miRNAs.  
XX  
XX Sequence 22 BP; 6 A; 3 C; 6 G; 0 T; 7 U; 0 Other;  
SQ  
Query Match 100.0%; Score 22; DB 14; Length 22;  
Best Local Similarity 100.0%; Pred. No. 0.35;  
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
OY 1 UAGCAGCACAUAUGGUUGUG 22  
Db 1 UAGCAGCACAUAUGGUUGUG 22  
RESULT 12  
AED35921 ID AED35921 standard; DNA; 22 BP.  
XX AC AED35921;  
XX DT 15-DEC-2005 (first entry)  
XX  
DE Hsa-miR-15a DNA target.  
XX  
KM RNA interference; RNA purification; RNA amplification; gene silencing;  
KM RNA detection; micro RNA; miRNA; miR-15a; ss.  
XX  
OS Homo sapiens.  
XX  
FH Key Location/Qualifiers  
FT modified\_base 22 /\*tag= a  
FT /mod\_base= OTHER  
FT /note= "OTHER= 3' phosphorylated"  
XX  
PN WO2005098029-A2.  
XX  
PD 20-OCT-2005.  
XX  
PF 07-APR-2005; 2005WO-DK000239.  
XX  
XX 07-APR-2004; 2004DK-00000578.  
XX 23-JUL-2004; 2004DK-00001146.  
XX 11-AUG-2004; 2004DK-00001218.  
XX 15-OCT-2004; 2004DK-00001587.  
XX 28-JAN-2005; 2005DK-00000140.  
XX  
XX (EXIQ-) EXIQON AS.  
XX  
PI Jacobsen N, Kongsbak L, Kauppinen S, Echwald SM, Mouritzen P;  
PI Nielsen PS, Norholm M;  
XX  
XX WPI; 2005-714540/73.  
XX  
PT Isolating, purifying, amplifying, detecting, identifying, quantifying or

PT capturing non-coding RNAs such as micro RNA or small interfering RNA  
PT (siRNA), involves using oligonucleotide containing nucleoside analogs.  
XX  
XX Example; Page 69; 180pp; English.  
XX  
CC The present invention relates to the use of an oligonucleotide for the  
CC isolation, purification, amplification, detection, identification,  
CC quantification or capture of microRNA (miRNA) or small interfering RNA  
CC (siRNA), where the oligonucleotide contains a number of nucleoside  
CC analogs. The method uses 2 anchored tagging probes, each designed in  
CC combination to detect a complementary target sequence, e.g. a short RNA  
CC sequence, where the first tagging probe hybridizes to a first region  
CC within a target sequence and the second tagging probe hybridizes to a  
CC second region within the same complementary target sequence, e.g. a short  
CC RNA target sequence that is adjacent to the first region. In a preferred  
CC mode, one of the tagging probes is 5' phosphorylated to enable covalent  
CC coupling of the 2 contiguous tagging probes hybridized to the  
CC complementary target sequence by a ligase to form a single  
CC oligonucleotide sequence. The method takes advantage of substitution of  
CC the recognition sequences with high-affinity nucleotide analogs, e.g.  
CC locked nucleic acid (LNA), for sensitive and specific hybridization to  
CC short target sequences, e.g. miRNAs or siRNAs. The ligation reaction is  
CC followed by real-time quantitative PCR (qPCR) of the target sequence,  
CC e.g. ribonucleic acid-templated, covalently joined oligonucleotide  
CC molecules using anchor sequences attached to the tagging probes as  
CC priming sites for the PCR primers and a short detection probe with  
CC sufficient duplex stability to allow binding to the amplicon, and  
CC employing any of a variety of detection principles used in homogeneous  
CC assays. In the preferred mode, the detection probe is substituted with  
CC duplex-stabilizing, high-affinity nucleotide analogs, e.g. LNA, and  
CC preferably oxy-LNA, to allow the use of short detection probes in the  
CC real-time qPCR. The method is useful for detecting and quantifying  
CC individual small RNA molecules in complex mixtures of different nucleic  
CC acids, and for detecting, testing, diagnosing or quantifying miRNAs,  
CC siRNAs, other non-coding RNAs, RNA-edited transcripts or alternative mRNA  
CC splice variants implicated in, or connected to, human disease in complex  
CC nucleic acid samples, e.g. from cancer patients. The present sequence is  
CC that of hsa-miR-15a DNA, which was used as a target sequence in a real-  
CC time qPCR assay of human miR-15a in an example from the invention.  
XX  
SQ Sequence 22 BP; 6 A; 3 C; 6 G; 7 T; 0 U; 0 Other;  
Query Match 100.0%; Score 22; DB 14; Length 22;  
Best Local Similarity 68.2%; Pred. No. 0.35;  
Matches 15; Conservative 7; Mismatches 0; Indels 0; Gaps 0;  
OY 1 UAGCAGCACAUAUGGUUGUG 22  
Db 1 UAGCAGCACAUAUGGUUGUG 22  
RESULT 13  
AED35925 ID AED35925 standard; RNA; 22 BP.  
XX AC AED35925;  
XX  
XX DT 15-DEC-2005 (first entry)  
XX  
DE Hsa-miR-15a RNA target.  
XX  
KM RNA interference; RNA purification; RNA amplification; gene silencing;  
KM RNA detection; micro RNA; miRNA; miR-15a; ss.  
XX  
XX Homo sapiens.  
XX  
XX WO2005098029-A2.  
XX  
PN 20-OCT-2005.  
XX  
PD 07-APR-2005; 2005WO-DK000239.  
XX  
PF 07-APR-2004; 2004DK-00000578.  
XX  
PR

PR 23-JUL-2004; 2004DK-00001146.  
PR 11-AUG-2004; 2004DK-00001218.  
PR 15-OCT-2004; 2004DK-00001587.  
PR 28-JAN-2005; 2005DK-00000140.  
XX  
PA (EXIQ-) EXIQON AS.  
PI Jacobsen N, Kongsbak L, Kaupinen S, Echwald SM, Mouritzen P,  
PI Nielsen PS, Norholm M;  
XX WPI: 2005-714540/73.  
DR  
XX Isolating, purifying, amplifying, detecting, identifying, quantifying or  
PT capturing non-coding RNAs such as micro RNA or small interfering RNA  
PT (siRNA), involves using oligonucleotide containing nucleoside analogs.  
XX  
XX Example; Page 69; 180pp; English.  
XX  
XX The present invention relates to the use of an oligonucleotide for the  
CC isolation, purification, amplification, detection, identification,  
CC quantification or capture of microRNA (miRNA) or small interfering RNA  
CC (siRNA), where the oligonucleotide contains a number of nucleoside  
CC analogs. The method uses 2 anchored tagging probes, each designed in  
CC combination to detect a complementary target sequence, e.g. a short RNA  
CC sequence, where the first tagging probe hybridizes to a first region  
CC within a target sequence and the second tagging probe hybridizes to a  
CC second region within the same complementary target sequence, e.g. a short  
CC RNA target sequence that is adjacent to the first region. In a preferred  
CC mode, one of the tagging probes is 5' phosphorylated to enable covalent  
CC coupling of the 2 contiguous tagging probes hybridized to the  
CC complementary target sequence by a ligase to form a single  
CC oligonucleotide sequence. The method takes advantage of substitution of  
CC the recognition sequences with high-affinity nucleotide analogs, e.g.  
CC locked nucleic acid (LNA), for sensitive and specific hybridization to  
CC short target sequences, e.g. miRNAs or siRNAs. The ligation reaction is  
CC followed by real-time quantitative PCR (qPCR) of the target sequence,  
CC e.g. ribonucleic acid-templated, covalently joined oligonucleotide  
CC molecules using anchor sequences attached to the tagging probes as  
CC priming sites for the PCR primers and a short detection probe with  
CC sufficient duplex stability to allow binding to the amplicon, and  
CC employing any of a variety of detection principles used in homogeneous  
CC assays. In the preferred mode, the detection probe is substituted with  
CC duplex-stabilizing, high-affinity nucleotide analogs, e.g. LNA, and  
CC preferably oxy-LNA, to allow the use of short detection probes in the  
CC real-time qPCR. The method is useful for detecting and quantifying  
CC individual small RNA molecules in complex mixtures of different nucleic  
CC acids, and for detecting, testing, diagnosing or quantifying miRNAs, mRNA  
CC siRNAs, other non-coding RNAs, RNA-edited transcripts or alternative  
CC splice variants implicated in, or connected to, human disease in complex  
CC nucleic acid samples, e.g. from cancer patients. The present sequence is  
CC that of hsa-miR-15a RNA, which was used as a target sequence in a real-  
CC time qPCR assay of human miR-15a in an example from the invention.  
XX  
XX Sequence 22 BP; 6 A; 3 C; 6 G; 0 T; 7 U; 0 Other;  
SQ  
Query Match 100.0%; Score 22; DB 14; Length 22;  
Best Local Similarity 100.0%; Pred. No. 0.35;  
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX  
XX RNA interference; RNA purification; RNA amplification; gene silencing;  
XX RNA detection; micro RNA; miRNA; miR-15a; ss.  
XX  
XX Homo sapiens.  
XX  
XX WO2005098029-A2.  
XX  
XX 20-OCT-2005.  
XX  
XX 07-APR-2005; 2005WO-DK000239.  
XX  
XX 07-APR-2004; 2004DK-00000578.  
XX 23-JUL-2004; 2004DK-00001146.  
XX 11-AUG-2004; 2004DK-00001218.  
XX 15-OCT-2004; 2004DK-00001587.  
XX 28-JAN-2005; 2005DK-00000140.  
XX  
XX (EXIQ-) EXIQON AS.  
XX  
XX Jacobsen N, Kongsbak L, Kaupinen S, Echwald SM, Mouritzen P,  
XX PI Nielsen PS, Norholm M;  
XX WPI: 2005-714540/73.  
XX  
XX Isolating, purifying, amplifying, detecting, identifying, quantifying or  
PT capturing non-coding RNAs such as micro RNA or small interfering RNA  
PT (siRNA), involves using oligonucleotide containing nucleoside analogs.  
XX  
XX Disclosure; Fig 29; 180pp; English.  
XX  
XX The present invention relates to the use of an oligonucleotide for the  
CC isolation, purification, amplification, detection, identification,  
CC quantification or capture of microRNA (miRNA) or small interfering RNA  
CC (siRNA), where the oligonucleotide contains a number of nucleoside  
CC analogs. The method uses 2 anchored tagging probes, each designed in  
CC combination to detect a complementary target sequence, e.g. a short RNA  
CC sequence, where the first tagging probe hybridizes to a first region  
CC within a target sequence and the second tagging probe hybridizes to a  
CC second region within the same complementary target sequence, e.g. a short  
CC RNA target sequence that is adjacent to the first region. In a preferred  
CC mode, one of the tagging probes is 5' phosphorylated to enable covalent  
CC coupling of the 2 contiguous tagging probes hybridized to the  
CC complementary target sequence by a ligase to form a single  
CC oligonucleotide sequence. The method takes advantage of substitution of  
CC the recognition sequences with high-affinity nucleotide analogs, e.g.  
CC locked nucleic acid (LNA), for sensitive and specific hybridization to  
CC short target sequences, e.g. miRNAs or siRNAs. The ligation reaction is  
CC followed by real-time quantitative PCR (qPCR) of the target sequence,  
CC e.g. ribonucleic acid-templated, covalently joined oligonucleotide  
CC molecules using anchor sequences attached to the tagging probes as  
CC priming sites for the PCR primers and a short detection probe with  
CC sufficient duplex stability to allow binding to the amplicon, and  
CC employing any of a variety of detection principles used in homogeneous  
CC assays. In the preferred mode, the detection probe is substituted with  
CC duplex-stabilizing, high-affinity nucleotide analogs, e.g. LNA, and  
CC preferably oxy-LNA, to allow the use of short detection probes in the  
CC real-time qPCR. The method is useful for detecting and quantifying  
CC individual small RNA molecules in complex mixtures of different nucleic  
CC acids, and for detecting, testing, diagnosing or quantifying miRNAs,  
CC siRNAs, other non-coding RNAs, RNA-edited transcripts or alternative  
CC splice variants implicated in, or connected to, human disease in complex  
CC nucleic acid samples, e.g. from cancer patients. The present sequence is  
CC that of human miRNA Hsa miR-15a, which was used as the target in examples  
CC from the invention.  
XX  
XX Sequence 22 BP; 6 A; 3 C; 6 G; 0 T; 7 U; 0 Other;  
SQ  
Query Match 100.0%; Score 22; DB 14; Length 22;  
Best Local Similarity 100.0%; Pred. No. 0.35;  
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 UAGCAGCACAUAGGUGUG 22

RESULT 15

AED53385  
ID AED53385 standard; RNA; 22 BP.

AC AED53385;

DT 29-DEC-2005 (first entry)

DE Human target / micro RNA oligo, hsa-miR-15.

KW RNA interference; micro RNA; miRNA; transcription; gene regulation;  
microarray; ss.

OS Homo sapiens.

PN JP2005296014-A.

PD 27-OCT-2005.

PF 06-APR-2005; 2005JP-00109915.

PR 06-APR-2004; 2004US-00818956.

PA (EPPE-) EPENDORF ARRAY TECHNOLOGIES SA.

PI Van Velfer C, Lemacre J, Bulov S, Samathoe N;

DR WPI; 2005-753146/77.

PT Determining RNA interference mediated transcriptional regulation of cell,  
by ligating micro RNA of cell to polynucleotide by which target was  
labeled and hybridizing it to probe for transcription material, in array,  
detecting signal.

PS Claim 31; Page 20; 30pp; Japanese.

CC The invention relates to a novel method for determining RNA interference  
(RNAi) mediated transcriptional regulation of a cell, by determining  
patterns of at least 3 micro RNAs (miRNAs). The method involves preparing  
an array with a capture probe of transcription material from the DNA of a  
cell, isolating an miRNA pool existing latently from the cell, extending  
the miRNA or ligating it to a polynucleotide with a labeled target.  
CC hybridizing the polynucleotide with a probe in an array and detecting a  
signal from the array. The invention further includes a kit for carrying  
out the above method. The method is useful for determining RNAi mediated  
transcriptional regulation of a cell. This sequence represents a human  
target / miRNA oligo for use in a microarray of the invention.

SO Sequence 22 BP; 6 A; 3 C; 6 G; 0 T; 7 U; 0 Other;

Query Match 100.0%; Score 22; DB 14; Length 22;

Best Local Similarity 100.0%; Pred. No. 0.35;  
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 UAGCAGCACAUAGGUGUG 22  
Db 1 UAGCAGCACAUAGGUGUG 22

Search completed: November 1, 2006, 22:24:57  
Job time : 107.39 secs

**THIS PAGE BLANK (USPTO)**

GenCore version 5.1.9  
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: November 1, 2006, 20:59:58 ; Search time 38.1333 Seconds  
(without alignments)  
1079.486 Million cell updates/sec

Title: US-10-706-798-3  
Perfect score: 22  
Sequence: 1 uacgacgacacuaugugug 22

Scoring table: IDENTITY NUC  
Gapop 10'-0', Gapext 1.0

Searched: 1403666 seqs, 935554401 residues

Total number of hits satisfying chosen parameters: 2807332

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%  
Listing first 45 summaries

Database :

1: Issued Patents\_NA.\*  
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3: /EMC\_Celerra\_SIDS3/ptodata/2/ina/5.COMB.seq.\*  
4: /EMC\_Celerra\_SIDS3/ptodata/2/ina/6A.COMB.seq.\*  
5: /EMC\_Celerra\_SIDS3/ptodata/2/ina/7.COMB.seq.\*  
6: /EMC\_Celerra\_SIDS3/ptodata/2/ina/H.COMB.seq.\*  
7: /EMC\_Celerra\_SIDS3/ptodata/2/ina/PTUS.COMB.seq.\*  
8: /EMC\_Celerra\_SIDS3/ptodata/2/ina/PP.COMB.seq.\*  
9: /EMC\_Celerra\_SIDS3/ptodata/2/ina/RE.COMB.seq.\*  
10: /EMC\_Celerra\_SIDS3/ptodata/2/ina/Backfile1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	17.2	78.2	601	US-09-949-016-76948	Sequence 76948, A
2	17.2	78.2	117807	US-09-949-016-15525	Sequence 15525, A
3	17.2	78.2	189560	US-09-949-016-17202	Sequence 17202, A
4	17.2	78.2	236341	US-09-949-016-13978	Sequence 13978, A
5	16.8	76.4	601	US-09-949-016-110759	Sequence 110759, A
6	16.8	76.4	601	US-09-949-016-110920	Sequence 110920, A
7	16.8	76.4	601	US-09-949-016-111081	Sequence 111081, A
8	16.8	76.4	601	US-09-949-016-111242	Sequence 111242, A
9	16.8	76.4	966	US-09-248-796A-5921	Sequence 5921, Ap
C 10	16.8	76.4	2319	US-09-070-356-1	Sequence 1, Appl1
C 11	16.8	76.4	2334	US-08-406-070-1	Sequence 1, Appl1
12	16.8	76.4	43991	US-09-984-429-252	Sequence 252, App
13	16.8	76.4	174170	US-09-949-016-14810	Sequence 14810, A
14	16.8	76.4	174170	US-09-949-016-14811	Sequence 14811, A
15	16.8	76.4	174318	US-09-949-016-11880	Sequence 11880, A
16	16.8	76.4	174318	US-09-949-016-14812	Sequence 14812, A
17	16.8	76.4	174318	US-09-949-016-14813	Sequence 14813, A
18	16.6	75.5	601	US-09-949-016-17630	Sequence 17630, A
19	16.6	75.5	601	US-09-949-016-36194	Sequence 36194, A
20	16.6	75.5	601	US-09-949-016-54602	Sequence 54602, A
21	16.6	75.5	601	US-09-949-016-54634	Sequence 54634, A
22	16.6	75.5	601	US-09-949-016-54666	Sequence 54666, A
23	16.6	75.5	601	US-09-949-016-119031	Sequence 119031, A

24	16.6	75.5	601	US-09-949-016-119067	Sequence 119067, A
25	16.6	75.5	601	US-09-949-016-119103	Sequence 119103, A
26	16.6	75.5	601	US-09-949-016-119139	Sequence 119139, A
27	16.6	75.5	601	US-09-949-016-119175	Sequence 119175, A
28	16.6	75.5	601	US-09-949-016-119211	Sequence 119211, A
29	16.4	74.5	1365	US-09-949-016-2063	Sequence 2063, Ap
30	16.4	74.5	6946	US-09-949-016-13805	Sequence 13805, A
C 31	16.2	73.6	601	US-09-949-016-16039	Sequence 46039, A
C 32	16.2	73.6	601	US-09-949-016-92412	Sequence 92412, A
C 33	16.2	73.6	601	US-09-949-016-137903	Sequence 137903, A
C 34	16.2	73.6	777	US-08-956-171E-1156	Sequence 1156, Ap
C 35	16.2	73.6	777	US-08-781-986A-1156	Sequence 1156, Ap
36	16.2	73.6	1140	US-09-248-796A-4772	Sequence 4772, Ap
37	16.2	73.6	1671	US-09-248-796A-4650	Sequence 4650, Ap
38	16.2	73.6	4880	US-09-402-929-5	Sequence 5, Appl1
C 39	16.2	73.6	7868	US-09-676-519-19	Sequence 19, Appl1
C 40	16.2	73.6	43576	US-09-949-016-12224	Sequence 12224, A
41	16.2	73.6	52711	US-09-949-016-15618	Sequence 15618, A
42	16.2	73.6	52865	US-09-949-016-16267	Sequence 16267, A
C 43	16.2	73.6	54531	US-09-949-016-14385	Sequence 14385, A
44	16.2	73.6	72602	US-09-949-016-13058	Sequence 13058, A
45	16.2	73.6	103712	US-09-949-016-13058	Sequence 13058, A

#### ALIGNMENTS

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RESULT 1
US-09-949-016-76948
; Sequence 76948, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241, 755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237, 768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231, 498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 76948
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-76948

Query Match      78.2%   Score 17.2;   DB 3;   Length 601;
Best Local Similarity 59.1%   Pred. No. 72;
Matches 13;   Conservative 6;   Mismatches 3;   Indels 0;   Gaps 0;

Cy      1      UACGACGACAAUAUGUGUGUG 22
Db      169  TAGAGCACAATAATGTTGTG 190

RESULT 2
US-09-949-016-15525
; Sequence 15525, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241, 755
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/ PRIOR FILING DATE: 2000-10-20
/ PRIOR APPLICATION NUMBER: 60/237,768
/ PRIOR FILING DATE: 2000-10-03
/ PRIOR APPLICATION NUMBER: 60/231,498
/ PRIOR FILING DATE: 2000-09-08
/ NUMBER OF SEQ ID NOS: 207012
/ SOFTWARE: FASTSEQ for Windows Version 4.0
/ SEQ ID NO: 15525
/ LENGTH: 117807
/ TYPE: DNA
/ ORGANISM: Human
US-09-949-016-15525
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Query Match      78.2%; Score 17.2; DB 3; Length 117807;
Best Local Similarity 59.1%; Pred. No. 1.5e+02;
Matches 13; Conservative 6; Mismatches 3; Indels 0; Gaps 0;
```

```
QY      1 UAGCAGCACAAUAGUGUUG 22
Db      29126 TAGCATCATATATATGCTGTG 29147
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RESULT 3
US-09-949-016-17202
/ Sequence 17202, Application US/09949016
/ Patent No. 6812339
/ GENERAL INFORMATION:
/ APPLICANT: VENTER, J. Craig et al.
/ TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
/ TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
/ FILE REFERENCE: CL001307
/ CURRENT APPLICATION NUMBER: US/09/949,016
/ PRIOR FILING DATE: 2000-04-14
/ PRIOR APPLICATION NUMBER: 60/241,755
/ PRIOR FILING DATE: 2000-10-20
/ PRIOR APPLICATION NUMBER: 60/237,768
/ PRIOR FILING DATE: 2000-10-03
/ PRIOR APPLICATION NUMBER: 60/231,498
/ PRIOR FILING DATE: 2000-09-08
/ NUMBER OF SEQ ID NOS: 207012
/ SOFTWARE: FASTSEQ for Windows Version 4.0
/ SEQ ID NO: 17202
/ LENGTH: 189560
/ TYPE: DNA
/ ORGANISM: Human
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (1)...(189560)
/ OTHER INFORMATION: n = A,T,C or G
US-09-949-016-17202
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Query Match      78.2%; Score 17.2; DB 3; Length 189560;
Best Local Similarity 59.1%; Pred. No. 1.6e+02;
Matches 13; Conservative 6; Mismatches 3; Indels 0; Gaps 0;
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```
QY      1 UAGCAGCACAAUAGUGUUG 22
Db      130962 TAGCTGACATATATGCTGTG 130983
```

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RESULT 4
US-09-949-016-13978/C
/ Sequence 13978, Application US/09949016
/ Patent No. 6812339
/ GENERAL INFORMATION:
/ APPLICANT: VENTER, J. Craig et al.
/ TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
/ TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
/ FILE REFERENCE: CL001307
/ CURRENT APPLICATION NUMBER: US/09/949,016
/ PRIOR FILING DATE: 2000-04-14
/ PRIOR APPLICATION NUMBER: 60/241,755
/ PRIOR FILING DATE: 2000-10-20
```

```
/ PRIOR APPLICATION NUMBER: 60/237,768
/ PRIOR FILING DATE: 2000-10-03
/ PRIOR APPLICATION NUMBER: 60/231,498
/ PRIOR FILING DATE: 2000-09-08
/ NUMBER OF SEQ ID NOS: 207012
/ SOFTWARE: FASTSEQ for Windows Version 4.0
/ SEQ ID NO: 13978
/ LENGTH: 236341
/ TYPE: DNA
/ ORGANISM: Human
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (1)...(236341)
/ OTHER INFORMATION: n = A,T,C or G
US-09-949-016-13978
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Best Local Similarity 59.1%; Pred. No. 1.7e+02;
Matches 13; Conservative 6; Mismatches 3; Indels 0; Gaps 0;
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```
QY      1 UAGCAGCACAAUAGUGUUG 22
Db      187064 TAGAGCACAATAATGTTGTG 187043
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```
RESULT 5
US-09-949-016-110759
/ Sequence 110759, Application US/09949016
/ Patent No. 6812339
/ GENERAL INFORMATION:
/ APPLICANT: VENTER, J. Craig et al.
/ TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
/ TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
/ FILE REFERENCE: CL001307
/ CURRENT APPLICATION NUMBER: US/09/949,016
/ PRIOR FILING DATE: 2000-04-14
/ PRIOR APPLICATION NUMBER: 60/241,755
/ PRIOR FILING DATE: 2000-10-20
/ PRIOR APPLICATION NUMBER: 60/237,768
/ PRIOR FILING DATE: 2000-10-03
/ PRIOR APPLICATION NUMBER: 60/231,498
/ PRIOR FILING DATE: 2000-09-08
/ NUMBER OF SEQ ID NOS: 207012
/ SOFTWARE: FASTSEQ for Windows Version 4.0
/ SEQ ID NO: 110759
/ LENGTH: 601
/ TYPE: DNA
/ ORGANISM: Human
US-09-949-016-110759
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Query Match      76.4%; Score 16.8; DB 3; Length 601;
Best Local Similarity 65.0%; Pred. No. 1.1e+02;
Matches 13; Conservative 5; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1 UAGCAGCACAAUAGUGUUG 20
Db      398 TAGCAGCACATAATGCTATG 417
```

```
RESULT 6
US-09-949-016-110920
/ Sequence 110920, Application US/09949016
/ Patent No. 6812339
/ GENERAL INFORMATION:
/ APPLICANT: VENTER, J. Craig et al.
/ TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
/ TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
/ FILE REFERENCE: CL001307
/ CURRENT APPLICATION NUMBER: US/09/949,016
/ PRIOR FILING DATE: 2000-04-14
/ PRIOR APPLICATION NUMBER: 60/241,755
/ PRIOR FILING DATE: 2000-10-20
/ PRIOR APPLICATION NUMBER: 60/237,768
```



```
;; PRIOR FILING DATE: 2000-10-03
;; PRIOR APPLICATION NUMBER: 60/231,498
;; PRIOR FILING DATE: 2000-09-08
;; NUMBER OF SEQ ID NOS: 207012
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 110920
;; LENGTH: 601
;; TYPE: DNA
;; ORGANISM: Human
US-09-949-016-110920

Query Match          76.4%; Score 16.8; DB 3; Length 601;
Best Local Similarity 65.0%; Pred. No. 1.1e+02;
Matches 13; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Oy      1 UAGCAGCACAUAUGUUUG 20
Db      398 TAGCAGCACAATATGCTATG 417

RESULT 7
US-09-949-016-111081
;; Sequence 111081, Application US/09949016
;; Patent No. 6812339
;; GENERAL INFORMATION:
;; APPLICANT: VENTER, J. Craig et al.
;; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;; FILE REFERENCE: C0001307
;; CURRENT APPLICATION NUMBER: US/09/949,016
;; PRIOR FILING DATE: 2000-04-14
;; PRIOR APPLICATION NUMBER: 60/241,755
;; PRIOR FILING DATE: 2000-10-20
;; PRIOR APPLICATION NUMBER: 60/237,768
;; PRIOR FILING DATE: 2000-10-03
;; PRIOR APPLICATION NUMBER: 60/231,498
;; NUMBER OF SEQ ID NOS: 207012
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 111081
;; LENGTH: 601
;; TYPE: DNA
;; ORGANISM: Human
US-09-949-016-111081

Query Match          76.4%; Score 16.8; DB 3; Length 601;
Best Local Similarity 65.0%; Pred. No. 1.1e+02;
Matches 13; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Oy      1 UAGCAGCACAUAUGUUUG 20
Db      398 TAGCAGCACAATATGCTATG 417

RESULT 8
US-09-949-016-111242
;; Sequence 111242, Application US/09949016
;; Patent No. 6812339
;; GENERAL INFORMATION:
;; APPLICANT: VENTER, J. Craig et al.
;; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;; FILE REFERENCE: C0001307
;; CURRENT APPLICATION NUMBER: US/09/949,016
;; PRIOR FILING DATE: 2000-04-14
;; PRIOR APPLICATION NUMBER: 60/241,755
;; PRIOR FILING DATE: 2000-10-20
;; PRIOR APPLICATION NUMBER: 60/237,768
;; PRIOR FILING DATE: 2000-10-03
;; PRIOR APPLICATION NUMBER: 60/231,498
;; NUMBER OF SEQ ID NOS: 207012
;; SOFTWARE: FastSeq for Windows Version 4.0
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```
;; SEQ ID NO 111242
;; LENGTH: 601
;; TYPE: DNA
;; ORGANISM: Human
US-09-949-016-111242

Query Match          76.4%; Score 16.8; DB 3; Length 601;
Best Local Similarity 65.0%; Pred. No. 1.1e+02;
Matches 13; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Oy      1 UAGCAGCACAUAUGUUUG 20
Db      398 TAGCAGCACAATATGCTATG 417

RESULT 9
US-09-248-796A-5921/C
;; Sequence 5921, Application US/09248796A
;; Patent No. 6747137
;; GENERAL INFORMATION:
;; APPLICANT: Keith Weinstock et al
;; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS
;; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
;; FILE REFERENCE: 107196.132
;; CURRENT APPLICATION NUMBER: US/09/248,796A
;; PRIOR FILING DATE: 1999-02-12
;; PRIOR APPLICATION NUMBER: US 60/074,725
;; PRIOR FILING DATE: 1998-02-13
;; PRIOR APPLICATION NUMBER: US 60/096,409
;; PRIOR FILING DATE: 1998-08-13
;; NUMBER OF SEQ ID NOS: 28208
;; SEQ ID NO 5921
;; LENGTH: 966
;; TYPE: DNA
;; ORGANISM: Candida albicans
US-09-248-796A-5921

Query Match          76.4%; Score 16.8; DB 3; Length 966;
Best Local Similarity 60.0%; Pred. No. 1.2e+02;
Matches 12; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

Oy      3 GCAGCACAUAUAUGUUUG 22
Db      734 GCAGCAATATATGTTTGTG 715

RESULT 10
US-09-070-356-1/C
;; Sequence 1, Application US/09070356
;; Patent No. 6228631
;; GENERAL INFORMATION:
;; APPLICANT: Alex Zhu
;; APPLICANT: Jack Goldstein
;; TITLE OF INVENTION: Recombinant a-N-
;; TITLE OF INVENTION: Acetylglucosaminidase
;; TITLE OF INVENTION: Enzyme and cDNA Encoding
;; TITLE OF INVENTION: Said Enzyme
;; NUMBER OF SEQUENCES: 7
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Amster, Rothstein & Edemstein
;; STREET: 90 Park Avenue
;; CITY: New York
;; STATE: New York
;; COUNTRY: U.S.A.
;; ZIP: 10016
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: 3.5 inch 1.44 Mb storage diskette
;; OPERATING SYSTEM: MS-DOS
;; SOFTWARE: Word Processor (ASCII)
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/09/070,356
;; FILING DATE:
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```
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/037,248
FILING DATE: March 26, 1993
ATTORNEY/AGENT INFORMATION:
NAME: Pasqualini, Patricia A.
REGISTRATION NUMBER: 34,894
REFERENCE/DOCKET NUMBER: 63475/12
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 697-5995
TELEFAX: (212) 266-0854 or 266-0082
TELEX: TWX 710-581-4766
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2319
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE:
DESCRIPTION: cDNA to mRNA
HYPOTHETICAL: no
ANTI-SENSE: yes
FRAGMENT TYPE:
ORIGINAL SOURCE:
ORGANISM: chicken liver
STRAIN:
INDIVIDUAL ISOLATE:
DEVELOPMENTAL STAGE:
HAPLOTYPE:
TISSUE TYPE:
CELL TYPE:
ORGANELLE:
IMMEDIATE SOURCE: library
POSITION IN GENOME: unknown
CHROMOSOME/SEGMENT:
MAP POSITION:
UNITS:
FEATURE:
NAME/KEY: chicken liver a-N-
NAME/KEY: acetylglactosaminidase
LOCATION:
IDENTIFICATION METHOD:
OTHER INFORMATION:
PUBLICATION INFORMATION:
AUTHORS:
TITLE:
JOURNAL:
VOLUME:
PAGES:
DATE:
DOCUMENT NUMBER:
FILING DATE:
PUBLICATION DATE:
RELEVANT RESIDUES IN SEQ ID NO:
US-09-070-356-1

Query Match 76.4%; Score 16.8; DB 3; Length 2319;
Best Local Similarity 60.0%; Pred. No. 1.4e+02;
Matches 12; Conservative 6; Mismatches 2; Indels 0; Gaps 0;
```

```
TITLE OF INVENTION: A cDNA For
TITLE OF INVENTION: alpha-N-acetyl-galactosaminidase From Gallus domesticus
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Reising, Ethlington, Barnard, Perry & Milton
STREET: P.O. Box 4390
CITY: Troy
STATE: Michigan
COUNTRY: US
ZIP: 48099
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/406,070
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Kohn, Kenneth I.
REGISTRATION NUMBER: 30,955
REFERENCE/DOCKET NUMBER: UMO P-317
TELECOMMUNICATION INFORMATION:
TELEPHONE: (810) 689-3500
TELEFAX: (810) 689-4071
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2334 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: misc feature
LOCATION: 2316..2334
US-08-406-070-1

Query Match 76.4%; Score 16.8; DB 2; Length 2334;
Best Local Similarity 60.0%; Pred. No. 1.4e+02;
Matches 12; Conservative 6; Mismatches 2; Indels 0; Gaps 0;
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RESULT 11
US-08-406-070-1/c
Sequence 1, Application US/08406070
Patent No. 5610063
GENERAL INFORMATION:
APPLICANT: Smith, Daniel S.
APPLICANT: Walker, John C.
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RESULT 12
US-09-984-429-252
Sequence 252, Application US/09984429
Patent No. 7026447
GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: 53 Human Secreted Proteins
FILE REFERENCE: P2018P2
CURRENT APPLICATION NUMBER: US/09/984,429
CURRENT FILING DATE: 2001-10-30
PRIOR APPLICATION NUMBER: 60/244,591
PRIOR FILING DATE: 2000-11-01
PRIOR APPLICATION NUMBER: 09/288,143
PRIOR FILING DATE: 1999-04-08
PRIOR APPLICATION NUMBER: PCT/US98/21142
PRIOR FILING DATE: 1998-10-08
PRIOR APPLICATION NUMBER: 60/061,463
PRIOR FILING DATE: 1997-10-09
PRIOR APPLICATION NUMBER: 60/061,529
PRIOR FILING DATE: 1997-10-09
PRIOR APPLICATION NUMBER: 60/071,498
PRIOR FILING DATE: 1997-10-09
PRIOR APPLICATION NUMBER: 60/061,527
PRIOR FILING DATE: 1997-10-09
PRIOR APPLICATION NUMBER: 60/061,536
PRIOR FILING DATE: 1997-10-09
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GenCore version 5.1.9  
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: November 1, 2006, 22:20:01 ; Search time 527.371 Seconds  
(without alignments)  
512.595 Million cell updates/sec

Title: US-10-706-798-3

Perfect score: 1 uagcagcacaauauguuug 22

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 18892170 seqs, 614381763 residues

Total number of hits satisfying chosen parameters: 37784340

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications NA Main:

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2: /EMC\_Celerra\_SIDS3/prodata/2/pubpna/US08\_PUBCOMB.seq:\*  
3: /EMC\_Celerra\_SIDS3/prodata/2/pubpna/US09\_PUBCOMB.seq:\*  
4: /EMC\_Celerra\_SIDS3/prodata/2/pubpna/US09B\_PUBCOMB.seq:\*  
5: /EMC\_Celerra\_SIDS3/prodata/2/pubpna/US09C\_PUBCOMB.seq:\*  
6: /EMC\_Celerra\_SIDS3/prodata/2/pubpna/US10A\_PUBCOMB.seq:\*  
7: /EMC\_Celerra\_SIDS3/prodata/2/pubpna/US10C\_PUBCOMB.seq:\*  
8: /EMC\_Celerra\_SIDS3/prodata/2/pubpna/US10D\_PUBCOMB.seq:\*  
9: /EMC\_Celerra\_SIDS3/prodata/2/pubpna/US10E\_PUBCOMB.seq:\*  
10: /EMC\_Celerra\_SIDS3/prodata/2/pubpna/US10F\_PUBCOMB.seq:\*  
11: /EMC\_Celerra\_SIDS3/prodata/2/pubpna/US10G\_PUBCOMB.seq:\*  
12: /EMC\_Celerra\_SIDS3/prodata/2/pubpna/US11A\_PUBCOMB.seq:\*  
13: /EMC\_Celerra\_SIDS3/prodata/2/pubpna/US11B\_PUBCOMB.seq:\*  
14: /EMC\_Celerra\_SIDS3/prodata/2/pubpna/US11C\_PUBCOMB.seq:\*  
15: /EMC\_Celerra\_SIDS3/prodata/2/pubpna/US11D\_PUBCOMB.seq:\*  
16: /EMC\_Celerra\_SIDS3/prodata/2/pubpna/US11E\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	22	100.0	22	10	US-10-490-955-81
3	22	100.0	22	10	US-10-490-955-119
4	22	100.0	22	10	US-10-490-955-448
5	22	100.0	22	10	US-10-740-256A-62
6	22	100.0	22	10	US-10-909-125-269
7	22	100.0	22	10	US-10-909-125-369
8	22	100.0	22	11	US-10-881-362B-7
9	22	100.0	22	15	US-11-055-035-16
10	22	100.0	22	15	US-11-102-453-15
11	22	100.0	22	15	US-11-102-453-111
12	22	100.0	22	15	US-11-100-897-5
13	22	100.0	22	15	US-11-100-897-7
14	22	100.0	22	15	US-11-100-897-73
15	22	100.0	22	16	US-11-171-175-131
16	22	100.0	27	10	US-10-909-125-887
17	22	100.0	70	10	US-10-909-125-1316

18	22	100.0	83	8	US-10-706-798-1	Sequence 1, Appli
19	22	100.0	83	10	US-10-490-955-248	Sequence 248, App
20	22	100.0	83	10	US-10-490-955-305	Sequence 305, App
21	22	100.0	83	15	US-11-100-897-72	Sequence 72, Appli
22	22	100.0	83	16	US-11-230-992-1	Sequence 1, Appli
23	22	100.0	110	10	US-10-909-125-128	Sequence 128, App
24	22	100.0	110	10	US-10-909-125-165	Sequence 165, App
25	22	100.0	310	10	US-10-909-125-906	Sequence 906, App
26	21	95.5	21	10	US-10-490-955-19	Sequence 19, Appli
27	21	95.5	21	10	US-10-909-125-1151	Sequence 1151, Ap
28	21	95.5	21	10	US-10-909-125-1768	Sequence 1768, Ap
29	20	90.9	22	10	US-10-708-204-23	Sequence 23, Appli
30	20	90.9	74	10	US-10-708-204-6357	Sequence 6357, Ap
31	20	90.9	76	10	US-10-708-204-6769	Sequence 6769, Ap
32	18.8	85.5	600	10	US-10-972-079-77545	Sequence 77545, A
33	18	81.8	23	8	US-10-706-798-5	Sequence 5, Appli
34	17.4	79.1	21	10	US-10-909-125-1115	Sequence 1115, Ap
35	17.4	79.1	21	10	US-10-909-125-1886	Sequence 1886, Ap
36	17.4	79.1	22	10	US-10-490-955-120	Sequence 120, App
37	17.4	79.1	22	10	US-10-490-955-449	Sequence 449, App
38	17.4	79.1	22	10	US-10-909-125-246	Sequence 246, App
39	17.4	79.1	22	10	US-10-909-125-345	Sequence 345, App
40	17.4	79.1	22	15	US-11-102-453-112	Sequence 112, App
41	17.4	79.1	22	16	US-11-171-175-132	Sequence 132, App
42	17.4	79.1	64	10	US-10-490-955-306	Sequence 306, App
43	17.4	79.1	85	10	US-10-909-125-1286	Sequence 1286, Ap
44	17.4	79.1	98	16	US-11-230-992-2	Sequence 2, Appli
45	17.4	79.1	110	10	US-10-909-125-80	Sequence 80, Appli

## ALIGNMENTS

RESULT 1  
US-10-706-798-3  
Sequence 3, Application US/10706798  
Publication No. US20040152112A1  
GENERAL INFORMATION:  
APPLICANT: Croce, Carlo M.  
TITLE OF INVENTION: Compositions and Methods for Cancer  
FILE REFERENCE: 08321-0126US1  
CURRENT APPLICATION NUMBER: US/10/706,798  
CURRENT FILING DATE: 2003-11-12  
PRIOR APPLICATION NUMBER: 60/425,864  
PRIOR FILING DATE: 2002-11-13  
PRIOR APPLICATION NUMBER: 60/469,464  
PRIOR FILING DATE: 2003-05-09  
NUMBER OF SEQ ID NOS: 54  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 3  
LENGTH: 22  
TYPE: RNA  
ORGANISM: Homo sapiens  
US-10-706-798-3  
Query Match 100.0%; Score 22; DB 8; Length 22;  
Best Local Similarity 100.0%; Pred. No. 1.9;  
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Oy 1 UAGCAGCACAUAUGUGUGUG 22  
Db 1 UAGCAGCACAUAUGUGUGUG 22  
RESULT 2  
US-10-490-955-81  
Sequence 81, Application US/10490955  
Publication No. US20050059005A1  
GENERAL INFORMATION:  
APPLICANT: Tuechl, Thomas  
APPLICANT: Lagos-Quintana, Mariana

```
; APPLICANT: Lendeckel, Winfried
; APPLICANT: Meyer, Jutta
; APPLICANT: Rauhut, Reinhard
; TITLE OF INVENTION: MicroRNA Molecules
; FILE REFERENCE: 2923-613
; CURRENT APPLICATION NUMBER: US/10/490,955
; CURRENT FILING DATE: 2004-03-29
; PRIOR APPLICATION NUMBER: PCT/EP02/10881
; PRIOR FILING DATE: 2002-09-27
; PRIOR APPLICATION NUMBER: EP 02 016 772.2
; PRIOR FILING DATE: 2002-07-26
; PRIOR APPLICATION NUMBER: EP 02 006 712.0
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: EP 01 123 453.1
; PRIOR FILING DATE: 2001-09-28
; NUMBER OF SEQ ID NOS: 562
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 81
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-490-955-81
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Query Match 100.0%; Score 22; DB 10; Length 22;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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OY 1 UAGCAGCACAUAAUGGUGUG 22
Db 1 UAGCAGCACAUAAUGGUGUG 22
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RESULT 3
US-10-490-955-119
; Sequence 119, Application US/10490955
; Publication No. US20050059005A1
; GENERAL INFORMATION:
; APPLICANT: Tuschl, Thomas
; APPLICANT: Lendeckel, Winfried
; APPLICANT: Meyer, Jutta
; APPLICANT: Rauhut, Reinhard
; TITLE OF INVENTION: MicroRNA Molecules
; FILE REFERENCE: 2923-613
; CURRENT APPLICATION NUMBER: US/10/490,955
; CURRENT FILING DATE: 2004-03-29
; PRIOR APPLICATION NUMBER: PCT/EP02/10881
; PRIOR FILING DATE: 2002-09-27
; PRIOR APPLICATION NUMBER: EP 02 016 772.2
; PRIOR FILING DATE: 2002-07-26
; PRIOR APPLICATION NUMBER: EP 02 006 712.0
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: EP 01 123 453.1
; PRIOR FILING DATE: 2001-09-28
; NUMBER OF SEQ ID NOS: 562
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 119
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Mus musculus
US-10-490-955-119
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Query Match 100.0%; Score 22; DB 10; Length 22;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
OY 1 UAGCAGCACAUAAUGGUGUG 22
Db 1 UAGCAGCACAUAAUGGUGUG 22
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RESULT 4
US-10-490-955-448
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; Sequence 448, Application US/10490955
; Publication No. US20050059005A1
; GENERAL INFORMATION:
; APPLICANT: Tuschl, Thomas
; APPLICANT: Lagos-Quintana, Mariana
; APPLICANT: Lendeckel, Winfried
; APPLICANT: Meyer, Jutta
; APPLICANT: Rauhut, Reinhard
; TITLE OF INVENTION: MicroRNA Molecules
; FILE REFERENCE: 2923-613
; CURRENT APPLICATION NUMBER: US/10/490,955
; CURRENT FILING DATE: 2004-03-29
; PRIOR APPLICATION NUMBER: PCT/EP02/10881
; PRIOR FILING DATE: 2002-09-27
; PRIOR APPLICATION NUMBER: EP 02 016 772.2
; PRIOR FILING DATE: 2002-07-26
; PRIOR APPLICATION NUMBER: EP 02 006 712.0
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: EP 01 123 453.1
; PRIOR FILING DATE: 2001-09-28
; NUMBER OF SEQ ID NOS: 562
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 448
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: D. melanogaster or H. sapiens or M. musculus or C. elegans or
US-10-490-955-448
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Query Match 100.0%; Score 22; DB 10; Length 22;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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OY 1 UAGCAGCACAUAAUGGUGUG 22
Db 1 UAGCAGCACAUAAUGGUGUG 22
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RESULT 5
US-10-740-256A-62
; Sequence 62, Application US/10740256A
; Publication No. US20050074788A1
; GENERAL INFORMATION:
; APPLICANT: Dahlberg, James E.
; APPLICANT: Allawi, Hatim T.
; APPLICANT: Lyamichev, Victor
; APPLICANT: Neri, Bruce P.
; APPLICANT: Olson-Munoz, Marilyn
; APPLICANT: Chehak, LuAnne
; APPLICANT: Olson, Sarah M.
; TITLE OF INVENTION: Detection of Small Nucleic Acids
; FILE REFERENCE: FORS-08497
; CURRENT APPLICATION NUMBER: US/10/740,256A
; CURRENT FILING DATE: 2003-12-18
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 62
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
; NAME/KEY: modified_base
; LOCATION: (1)..(22)
; OTHER INFORMATION: 2'-O-methyl
US-10-740-256A-62
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Query Match 100.0%; Score 22; DB 10; Length 22;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy	1	UAGCAGCACAAUAAUGGUTUGG	22
Db	1	UAGCAGCACAAUAAUGGUTUGG	22

RESULT 6  
TIS-10-90

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Sequence 269, Application US/10909125
Publication No. US20050261218A1
GENERAL INFORMATION:
APPLICANT: Essau, Christine
APPLICANT: Lollo, Bridget
APPLICANT: Bennett, C. Frank
APPLICANT: Freier, Susan M.
APPLICANT: Griffey, Richard H.
APPLICANT: Baker, Brenda F.
APPLICANT: Vickers, Timothy
APPLICANT: Marcusson, Eric G.
APPLICANT: Koller, Erich
APPLICANT: Swayze, Eric
APPLICANT: Jain, Ravi
APPLICANT: Bhat, Balkrishen
APPLICANT: Peralta, Egen
TITLE OF INVENTION: Oligomeric Compounds And Compositions For Use In Modulation
FILE REFERENCE: ISIS0080-100 (CORBO16US)
CURRENT APPLICATION NUMBER: US/10/909,125
CURRENT FILING DATE: 2004-07-30
PRIOR APPLICATION NUMBER: US 60/492, 056
PRIOR FILING DATE: 2003-07-31
PRIOR APPLICATION NUMBER: US 60/516, 303
PRIOR FILING DATE: 2003-10-31
PRIOR APPLICATION NUMBER: US 60/531, 596
PRIOR FILING DATE: 2003-12-19
PRIOR APPLICATION NUMBER: US 60/562, 417
PRIOR FILING DATE: 2004-04-14
NUMBER OF SEQ ID NOS: 2184
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 269
LENGTH: 22
TYPE: RNA
ORGANISM: H. sapiens
US-10-909-125-269

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Query Match	100.0%	Score 22	DB 10	Length 22
Best Local Similarity	100.0%	Pred. NC. 1.9%		
Matches 22	Conservative 0	Mismatches 0	Indels 0	Gaps 0

QY	1 UAGCAGCAUAUUGGUUGG 22 
DB	1 UAGCAGCAUAUUGGUUGG 22 

### RESULT 7

Sequence 369, Application US/10909125  
Publication No. US20050261218A1  
GENERAL INFORMATION:  
APPLICANT: Essau, Christine  
APPLICANT: Lollo, Bridget  
APPLICANT: Bennett, C. Frank  
APPLICANT: Freier, Susan M.  
APPLICANT: Griffey, Richard H.  
APPLICANT: Baker, Brenda F.  
APPLICANT: Vickers, Timothy  
APPLICANT: Marcusson, Eric G.  
APPLICANT: Koller, Erich  
APPLICANT: Swayze, Eric  
APPLICANT: Jain, Ravi  
APPLICANT: Bhat, Balkrishen  
APPLICANT: Petalca, Eigen  
TITLE OF INVENTION: Oligomeric Compounds And Compositions For Use In Modulation

```

# TITLE OF INVENTION: Of Small Non-Coding RNAs
# FILE REFERENCE: ISIS0080-100 (COR0016US)
# CURRENT APPLICATION NUMBER: US/10/909,125
# CURRENT FILING DATE: 2004-07-30
# PRIOR APPLICATION NUMBER: US 60/492,056
# PRIOR FILING DATE: 2003-07-31
# PRIOR APPLICATION NUMBER: US 60/516,303
# PRIOR FILING DATE: 2003-10-31
# PRIOR APPLICATION NUMBER: US 60/531,596
# PRIOR FILING DATE: 2003-12-19
# PRIOR APPLICATION NUMBER: US 60/562,417
# PRIOR FILING DATE: 2004-04-14
# NUMBER OF SEQ ID NOS: 2184
# SOFTWARE: Fastseq for Windows Version 4.0
# SEQ ID NO 369
# LENGTH: 22
# TYPE: DNA
# ORGANISM: Artificial Sequence
# FEATURE:
# OTHER INFORMATION: Oligomeric compound
# US-10-909-125-369

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Query Match	100.0%	Score 22;	DB 10;	Length 22;
Best Local Similarity	68.2%;	Pred. No. 1.9;		
Matches 15;	Conservative 7;	Mismatches 0;	Indels 0;	Gaps 0;

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QY      1 UAGCAGCACAUAAUGGUGUUUG 22
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DB      22 TAGCAGCACATAATGGTTGTG 1

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**RESULT 8**  
**ITS-10-88**

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: Sequence 7, Application US/10881362B
: Publication No. US20060003337A1
: GENERAL INFORMATION:
: APPLICANT: Applied Biosystems
: TITLE OF INVENTION: Detection of Small RNAs
: FILE REFERENCE: 9692-000046
: CURRENT APPLICATION NUMBER: US/10/881.362B
: CURRENT FILING DATE: 2004-06-30
: NUMBER OF SEQ ID NOS: 43
: SOFTWARE: Patentin version 3.3
: SEQ ID NO 7
: LENGTH: 22
: TYPE: RNA
: ORGANISM: Human
: US-10-881-362B-7

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Query Match	100.0%;	Score 22;	DB 11;	Length 22;
Best Local Similarity	100.0%;	Pred. No. 1.9;		
Matches 22;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0

QY	1	UAGCAGCACAUAAUGGUTUUG	22
Db	1	UAGCAGCACAUAAUGGUTUUG	22

**RESULT 9**  
**ITE-11-05**

Sequence 16, Application US/11055035  
Publication No. US20050256072A1  
GENERAL INFORMATION:  
APPLICANT: ARONIN, NEIL  
APPLICANT: ZAMORE, PHILLIP D.  
APPLICANT: BRODERICK, JENNIFER  
TITLE OF INVENTION: DUAL FUNCTIONAL OLIGONUCLEOTIDES FOR USE IN REPRESSING  
TITLE OF INVENTION: MUTANT GENE EXPRESSION  
FILE REFERENCE: UMY-095  
CURRENT APPLICATION NUMBER: US/11/055,035  
CURRENT FILING DATE: 2005-02-09  
PRIOR APPLICATION NUMBER: 60/543,467  
PRIOR FILING DATE: 2004-02-09

NUMBER OF SEQ ID NOS: 107  
SOFTWARE: PatentIn Ver. 3.3  
SEQ ID NO 16  
LENGTH: 22  
TYPE: RNA  
ORGANISM: Homo sapiens  
US-11-055-035-16

Query Match 100.0%; Score 22; DB 15; Length 22;  
Best Local Similarity 100.0%; Pred. No. 1.9;  
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 UAGCAGCACAUAUGGUGUG 22  
DB 1 UAGCAGCACAUAUGGUGUG 22

RESULT 10  
US-11-102-453-15  
Sequence 15, Application US/11102453  
Publication No. US20050260648A1  
GENERAL INFORMATION:  
APPLICANT: Van Hufel, Christophe  
APPLICANT: Remacle, Jose  
APPLICANT: Bulow, Sven  
TITLE OF INVENTION: METHOD FOR THE DETERMINATION OF CELLULAR  
TITLE OF INVENTION: TRANSCRIPTIONAL REGULATION  
FILE REFERENCE: KLAUS2.006CPI  
CURRENT APPLICATION NUMBER: US/11/102,453  
CURRENT FILING DATE: 2005-04-08  
PRIOR APPLICATION NUMBER: US 10/818,956  
PRIOR FILING DATE: 2004-04-06  
NUMBER OF SEQ ID NOS: 222  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 15  
LENGTH: 22  
TYPE: RNA  
ORGANISM: Homo sapiens  
US-11-102-453-15

Query Match 100.0%; Score 22; DB 15; Length 22;  
Best Local Similarity 100.0%; Pred. No. 1.9;  
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 UAGCAGCACAUAUGGUGUG 22  
DB 1 UAGCAGCACAUAUGGUGUG 22

RESULT 11  
US-11-102-453-111  
Sequence 111, Application US/11102453  
Publication No. US20050260648A1  
GENERAL INFORMATION:  
APPLICANT: Van Hufel, Christophe  
APPLICANT: Remacle, Jose  
APPLICANT: Bulow, Sven  
APPLICANT: Zammatteo, Nathalie  
TITLE OF INVENTION: METHOD FOR THE DETERMINATION OF CELLULAR  
TITLE OF INVENTION: TRANSCRIPTIONAL REGULATION  
FILE REFERENCE: KLAUS2.006CPI  
CURRENT APPLICATION NUMBER: US/11/102,453  
CURRENT FILING DATE: 2005-04-08  
PRIOR APPLICATION NUMBER: US 10/818,956  
PRIOR FILING DATE: 2004-04-06  
NUMBER OF SEQ ID NOS: 222  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 111  
LENGTH: 22  
TYPE: RNA  
ORGANISM: Mus musculus  
US-11-102-453-111

Query Match 100.0%; Score 22; DB 15; Length 22;  
Best Local Similarity 100.0%; Pred. No. 1.9;  
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 UAGCAGCACAUAUGGUGUG 22  
DB 1 UAGCAGCACAUAUGGUGUG 22

RESULT 12  
US-11-100-897-5  
Sequence 5, Application US/11100897  
Publication No. US20050272075A1  
GENERAL INFORMATION:  
APPLICANT: Jacobsen, Nana  
APPLICANT: Kongsbak, Lars  
APPLICANT: Kauppinen, Sakari  
APPLICANT: Echwald, Soren Morgenthaler  
APPLICANT: Mouritzen, Peter  
APPLICANT: Nielsen, Peter Stein  
APPLICANT: Notholm, Mikkel  
TITLE OF INVENTION: NOVEL METHODS FOR QUANTIFICATION OF MICRORNAs AND SMALL  
TITLE OF INVENTION: INTERFERING RNAs  
FILE REFERENCE: 50287/013004  
CURRENT APPLICATION NUMBER: US/11/100,897  
CURRENT FILING DATE: 2005-04-07  
PRIOR APPLICATION NUMBER: 60/648,221  
PRIOR FILING DATE: 2005-01-28  
PRIOR APPLICATION NUMBER: 60/619,291  
PRIOR FILING DATE: 2004-10-15  
PRIOR APPLICATION NUMBER: 60/600,961  
PRIOR FILING DATE: 2004-08-12  
PRIOR APPLICATION NUMBER: 60/590,856  
PRIOR FILING DATE: 2004-07-23  
PRIOR APPLICATION NUMBER: 60/560,148  
PRIOR FILING DATE: 2004-04-07  
NUMBER OF SEQ ID NOS: 79  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 5  
LENGTH: 22  
TYPE: DNA  
ORGANISM: artificial sequence  
FEATURE:  
OTHER INFORMATION: Synthetic sequence  
US-11-100-897-5

Query Match 100.0%; Score 22; DB 15; Length 22;  
Best Local Similarity 68.2%; Pred. No. 1.9;  
Matches 15; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

QY 1 UAGCAGCACAUAUGGUGUG 22  
DB 1 TAGCAGCACAUAUGGUGUG 22

RESULT 13  
US-11-100-897-7  
Sequence 7, Application US/11100897  
Publication No. US20050272075A1  
GENERAL INFORMATION:  
APPLICANT: Jacobsen, Nana  
APPLICANT: Kongsbak, Lars  
APPLICANT: Kauppinen, Sakari  
APPLICANT: Echwald, Soren Morgenthaler  
APPLICANT: Mouritzen, Peter  
APPLICANT: Nielsen, Peter Stein  
APPLICANT: Notholm, Mikkel  
TITLE OF INVENTION: NOVEL METHODS FOR QUANTIFICATION OF MICRORNAs AND SMALL  
TITLE OF INVENTION: INTERFERING RNAs  
FILE REFERENCE: 50287/013004  
CURRENT APPLICATION NUMBER: US/11/100,897  
CURRENT FILING DATE: 2005-04-07



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; PRIOR APPLICATION NUMBER: 60/648,221
; PRIOR FILING DATE: 2005-01-28
; PRIOR APPLICATION NUMBER: 60/619,291
; PRIOR FILING DATE: 2004-10-15
; PRIOR APPLICATION NUMBER: 60/600,961
; PRIOR FILING DATE: 2004-08-12
; PRIOR APPLICATION NUMBER: 60/590,856
; PRIOR FILING DATE: 2004-07-23
; PRIOR APPLICATION NUMBER: 60/560,148
; PRIOR FILING DATE: 2004-04-07
; NUMBER OF SEQ ID NOS: 79
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 7
; LENGTH: 22
; TYPE: RNA
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic sequence
US-11-100-897-7
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Query Match          100.0%; Score 22; DB 15; Length 22;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy      1 UAGCAGACAUAAUGGUGUG 22
Db      1 UAGCAGACAUAAUGGUGUG 22
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RESULT 14
US-11-100-897-73
; Sequence 73, Application US/11100897
; Publication No. US20050272075A1
; GENERAL INFORMATION:
; APPLICANT: Jacobsen, Nana
; APPLICANT: Kongsbak, Lars
; APPLICANT: Kauppinen, Sakari
; APPLICANT: Echwald, Soren Mogenshaler
; APPLICANT: Mouritzen, Peter
; APPLICANT: Nielsen, Peter Stein
; APPLICANT: Norholm, Mikkel
; TITLE OF INVENTION: NOVEL METHODS FOR QUANTIFICATION OF MICRORNAs AND SMALL
; FILE REFERENCE: 50287/013004
; CURRENT APPLICATION NUMBER: US/11/100,897
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/648,221
; PRIOR FILING DATE: 2005-01-28
; PRIOR APPLICATION NUMBER: 60/619,291
; PRIOR FILING DATE: 2004-10-15
; PRIOR APPLICATION NUMBER: 60/600,961
; PRIOR FILING DATE: 2004-08-12
; PRIOR APPLICATION NUMBER: 60/590,856
; PRIOR FILING DATE: 2004-07-23
; PRIOR APPLICATION NUMBER: 60/560,148
; PRIOR FILING DATE: 2004-04-07
; NUMBER OF SEQ ID NOS: 79
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 73
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-100-897-73
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Query Match          100.0%; Score 22; DB 15; Length 22;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy      1 UAGCAGACAUAAUGGUGUG 22
Db      1 UAGCAGACAUAAUGGUGUG 22
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RESULT 15
US-11-171-175-131/c
; Sequence 131, Application US/11171175
; Publication No. US20060019286A1
; GENERAL INFORMATION:
; APPLICANT: Horvitz, H. Robert
; APPLICANT: Miska, Eric A.
; APPLICANT: Alvarez-Saavedra, Ezequiel A.
; TITLE OF INVENTION: High Throughput Methods Relating to MicroRNA Expression Analysis
; FILE REFERENCE: 01997/554003
; CURRENT APPLICATION NUMBER: US/11/171,175
; CURRENT FILING DATE: 2005-06-30
; PRIOR APPLICATION NUMBER: 60/607,531
; PRIOR FILING DATE: 2004-09-07
; PRIOR APPLICATION NUMBER: 60/584,381
; PRIOR FILING DATE: 2004-06-30
; NUMBER OF SEQ ID NOS: 387
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 131
; LENGTH: 22
; TYPE: DNA
; ORGANISM: Mus musculus
US-11-171-175-131
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Query Match          100.0%; Score 22; DB 16; Length 22;
Best Local Similarity 68.2%; Pred. No. 1.9;
Matches 15; Conservative 7; Mismatches 0; Indels 0; Gaps 0;
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Qy      1 UAGCAGACAUAAUGGUGUG 22
Db      22 TAGCAGACATATGATGTTGTG 1
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Job time : 528.371 secs
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OM nucleic - nucleic search, using sw model

Run on: November 1, 2006, 22:25:14 ; Search time 49.6571 Seconds  
(without alignment)  
859.641 Million cell updates/sec

Title: US-10-706-798-3

Perfect score: 22

Sequence: 1 uagcagcacaauauguuugug 22

Scoring table: IDENTITY NUC

Gapop 10.0, Gapext 1.0

Searched: 2461376 seqs, 970166171 residues

Total number of hits satisfying chosen parameters: 4922752

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA New:  
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2: /EMC\_Celerra\_SIDS3/ptodata/2/pubpna/US06\_NEW\_PUB.seq:  
3: /EMC\_Celerra\_SIDS3/ptodata/2/pubpna/US07\_NEW\_PUB.seq:  
4: /EMC\_Celerra\_SIDS3/ptodata/2/pubpna/US08\_NEW\_PUB.seq:  
5: /EMC\_Celerra\_SIDS3/ptodata/2/pubpna/PCT\_NEW\_PUB.seq:  
6: /EMC\_Celerra\_SIDS3/ptodata/2/pubpna/US10\_NEW\_PUB.seq:  
7: /EMC\_Celerra\_SIDS3/ptodata/2/pubpna/US11\_NEW\_PUB.seq:  
8: /EMC\_Celerra\_SIDS3/ptodata/2/pubpna/US11\_NEW\_PUB.seq2:  
9: /EMC\_Celerra\_SIDS3/ptodata/2/pubpna/US11\_NEW\_PUB.seq2:  
10: /EMC\_Celerra\_SIDS3/ptodata/2/pubpna/US60\_NEW\_PUB.seq:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match Length	ID	Description
1	22	100.0	US-10-818-956-15	Sequence 15, Appl
2	22	100.0	US-10-818-956-111	Sequence 111, Appl
3	22	100.0	US-11-317-660-36	Sequence 36, Appl
4	22	100.0	US-11-317-660-795	Sequence 795, Appl
5	22	100.0	US-11-084-082-2	Sequence 2, Appl
6	22	100.0	US-11-084-082-27	Sequence 27, Appl
7	22	100.0	US-11-242-139-31	Sequence 31, Appl
8	22	100.0	US-11-242-139-127	Sequence 127, Appl
9	22	100.0	US-11-375-650-3	Sequence 3, Appl
10	22	100.0	US-11-194-055-325	Sequence 325, Appl
11	22	100.0	US-11-084-082-26	Sequence 26, Appl
12	22	100.0	US-11-194-055-33	Sequence 33, Appl
13	22	100.0	US-11-375-650-1	Sequence 1, Appl
14	22	100.0	US-11-194-055-32	Sequence 32, Appl
15	22	100.0	US-11-266-748A-23474	Sequence 23474, A
16	22	100.0	US-10-959-175-4	Sequence 4, Appl
17	22	100.0	US-10-959-175-5	Sequence 5, Appl
18	22	100.0	US-11-375-650-5	Sequence 5, Appl
19	22	100.0	US-11-266-748A-302054	Sequence 302054, A
20	22	100.0	US-10-818-956-112	Sequence 112, Appl
21	22	100.0	US-11-317-660-37	Sequence 37, Appl
22	22	100.0	US-11-317-660-796	Sequence 796, Appl
23	22	100.0	US-11-242-139-128	Sequence 128, Appl

24	17.4	79.1	40	8	US-11-194-055-327	Sequence 327, Appl
25	17.4	79.1	64	8	US-11-194-055-34	Sequence 34, Appl
26	17.4	79.1	98	8	US-11-194-055-35	Sequence 35, Appl
27	17.2	78.2	132	8	US-11-266-748A-119432	Sequence 119432, A
28	16.4	74.5	1000	8	US-11-266-748A-221650	Sequence 221650, A
29	16.4	74.5	1000	8	US-11-266-748A-286791	Sequence 286791, A
30	16.4	74.5	1000	8	US-11-266-748A-338220	Sequence 338220, A
31	16.4	74.5	1000	8	US-11-266-748A-397338	Sequence 397338, A
32	16.4	74.5	1000	8	US-11-266-748A-468384	Sequence 468384, A
33	16.4	74.5	34161	6	US-10-539-328-436	Sequence 436, Appl
34	16.4	74.5	43179	6	US-10-539-328-383	Sequence 383, Appl
35	16.2	73.6	201	6	US-10-284-444-12515	Sequence 12515, A
36	16.2	73.6	201	6	US-10-284-444-12517	Sequence 12517, A
37	16.2	73.6	335	7	US-11-244-330A-2226	Sequence 2226, Appl
38	16.2	73.6	493	8	US-11-266-748A-100416	Sequence 100416, A
39	16.2	73.6	493	8	US-11-266-748A-153227	Sequence 153227, A
40	16.2	73.6	585	6	US-10-471-571A-2965	Sequence 2965, Appl
41	16.2	73.6	664	8	US-11-266-748A-299464	Sequence 299464, A
42	16.2	73.6	879	8	US-11-266-748A-91874	Sequence 91874, A
43	16.2	73.6	879	8	US-11-266-748A-144685	Sequence 144685, A
44	16.2	73.6	916	8	US-11-266-748A-48314	Sequence 48314, A
45	16.2	73.6	1000	8	US-11-266-748A-224816	Sequence 224816, A

# ALIGNMENTS

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RESULT 1
US-10-818-956-15
Sequence 15, Application US/10818956
Publication No. US20060134639A1
GENERAL INFORMATION:
APPLICANT: Van Huffel, Christophe
APPLICANT: Remacle, Jose
APPLICANT: Bulow, Sven
TITLE OF INVENTION: METHOD FOR THE DETERMINATION OF CELLULAR
FILE REFERENCE: KLAUS2.006AUS
CURRENT APPLICATION NUMBER: US/10/818,956
CURRENT FILING DATE: 2004-04-06
NUMBER OF SEQ ID NOS: 212
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 15
LENGTH: 22
TYPE: RNA
ORGANISM: Homo Sapiens
US-10-818-956-15

Query Match 100.0%; Score 22; DB 6; Length 22;
Best Local Similarity 100.0%; Pred. No. 0.093;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 UAGCAGCACAUAUGGUGUGUG 22
Db 1 UAGCAGCACAUAUGGUGUGUG 22

RESULT 2
US-10-818-956-111
Sequence 111, Application US/10818956
Publication No. US20060134639A1
GENERAL INFORMATION:
APPLICANT: Van Huffel, Christophe
APPLICANT: Remacle, Jose
APPLICANT: Bulow, Sven
TITLE OF INVENTION: METHOD FOR THE DETERMINATION OF CELLULAR
FILE REFERENCE: KLAUS2.006AUS
CURRENT APPLICATION NUMBER: US/10/818,956
CURRENT FILING DATE: 2004-04-06
NUMBER OF SEQ ID NOS: 212

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Qy 1 UAGCAGCACAUAAUGGUGUG 22  
 Db 1 UAGCAGCACAUAAUGGUGUG 22

RESULT 7  
 US-11-242-139-31

; Sequence 31, Application US/11242139  
 ; Publication No. US2006009619A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: REMACLE, JOSE  
 ; APPLICANT: DU LONGUEVILLE, FRANCOISE  
 ; TITLE OF INVENTION: DETECTION AND QUANTIFICATION OF MIRNA ON MICRO-ARRAYS  
 ; FILE REFERENCE: 035642-0107  
 ; CURRENT FILING DATE: 2005-10-04  
 ; PRIOR FILING DATE: 2003-08-11  
 ; NUMBER OF SEQ ID NOS: 239  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 31  
 ; LENGTH: 22  
 ; TYPE: RNA  
 ; ORGANISM: Homo sapiens  
 US-11-242-139-31

Query Match 100.0%; Score 22; DB 8; Length 22;  
 Best Local Similarity 100.0%; Pred. No. 0.093;  
 Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 UAGCAGCACAUAAUGGUGUG 22  
 Db 1 UAGCAGCACAUAAUGGUGUG 22

RESULT 8  
 US-11-242-139-127

; Sequence 127, Application US/11242139  
 ; Publication No. US2006009619A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: REMACLE, JOSE  
 ; APPLICANT: DU LONGUEVILLE, FRANCOISE  
 ; TITLE OF INVENTION: DETECTION AND QUANTIFICATION OF MIRNA ON MICRO-ARRAYS  
 ; FILE REFERENCE: 035642-0107  
 ; CURRENT FILING DATE: 2005-10-04  
 ; PRIOR FILING DATE: 2003-08-11  
 ; NUMBER OF SEQ ID NOS: 239  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 127  
 ; LENGTH: 22  
 ; TYPE: RNA  
 ; ORGANISM: Mus musculus  
 US-11-242-139-127

Query Match 100.0%; Score 22; DB 8; Length 22;  
 Best Local Similarity 100.0%; Pred. No. 0.093;  
 Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 UAGCAGCACAUAAUGGUGUG 22  
 Db 1 UAGCAGCACAUAAUGGUGUG 22

RESULT 9  
 US-11-375-650-3  
 ; Sequence 3, Application US/11375650  
 ; Publication No. US20060165659A1  
 ; GENERAL INFORMATION:

; APPLICANT: Croce, Carlo M.  
 ; APPLICANT: Calin, George A.  
 ; TITLE OF INVENTION: Compositions and Methods for Cancer  
 ; TITLE OF INVENTION: Diagnosis and Therapy  
 ; FILE REFERENCE: 08321-0126US1  
 ; CURRENT APPLICATION NUMBER: US/11/375,650  
 ; CURRENT FILING DATE: 2006-03-13  
 ; PRIOR APPLICATION NUMBER: US/10/706,798  
 ; PRIOR FILING DATE: 2003-11-12  
 ; PRIOR APPLICATION NUMBER: 60/425,864  
 ; PRIOR FILING DATE: 2002-11-13  
 ; PRIOR APPLICATION NUMBER: 60/469,464  
 ; PRIOR FILING DATE: 2003-05-09  
 ; NUMBER OF SEQ ID NOS: 54  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 3  
 ; LENGTH: 22  
 ; TYPE: RNA  
 ; ORGANISM: Homo sapiens  
 US-11-375-650-3

Query Match 100.0%; Score 22; DB 9; Length 22;  
 Best Local Similarity 100.0%; Pred. No. 0.093;  
 Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 UAGCAGCACAUAAUGGUGUG 22  
 Db 1 UAGCAGCACAUAAUGGUGUG 22

RESULT 10  
 US-11-194-055-325

; Sequence 325, Application US/11194055  
 ; Publication No. US20060105360A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Croce, Carlo M.  
 ; APPLICANT: Lin, Chang-Gong  
 ; APPLICANT: Calin, George A.  
 ; APPLICANT: Cinzia, Sevigiani  
 ; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF CANCERS WITH  
 ; TITLE OF INVENTION: MICRORNA LOCATED IN OR NEAR CANCER-ASSOCIATED CHROMOSOMAL  
 ; TITLE OF INVENTION: FEATURES  
 ; FILE REFERENCE: 3589.1018-008  
 ; CURRENT APPLICATION NUMBER: US/11/194,055  
 ; CURRENT FILING DATE: 2005-07-29  
 ; PRIOR APPLICATION NUMBER: PCT/US2005/004865  
 ; PRIOR FILING DATE: 2005-02-09  
 ; PRIOR APPLICATION NUMBER: 60/543,119  
 ; PRIOR FILING DATE: 2004-02-09  
 ; PRIOR APPLICATION NUMBER: 60/542,929  
 ; PRIOR FILING DATE: 2004-02-09  
 ; PRIOR APPLICATION NUMBER: 60/542,963  
 ; PRIOR FILING DATE: 2004-02-09  
 ; PRIOR APPLICATION NUMBER: 60/542,940  
 ; PRIOR FILING DATE: 2004-02-09  
 ; PRIOR APPLICATION NUMBER: 60/580,959  
 ; PRIOR FILING DATE: 2004-06-18  
 ; PRIOR APPLICATION NUMBER: 60/580,797  
 ; PRIOR FILING DATE: 2004-06-18  
 ; NUMBER OF SEQ ID NOS: 663  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 325  
 ; LENGTH: 40  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: oligonucleotide probe  
 US-11-194-055-325

Query Match 100.0%; Score 22; DB 8; Length 40;  
 Best Local Similarity 68.2%; Pred. No. 0.1;  
 Matches 15; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

Qy 1 UAGCAGACAUAUGGUGUG 22  
:|||||:|||||:  
Db 14 TAGCAGACATTAATGCTTTGTG 35

RESULT 11  
US-11-084-082-26/c  
; Sequence 26, Application US/11084082  
; Publication No. US20060211000A1  
; GENERAL INFORMATION:  
; APPLICANT: SORGE, JOSEPH A.  
; APPLICANT: MULINIX, REBECCA L.  
; TITLE OF INVENTION: METHODS, COMPOSITIONS, AND KITS FOR DETECTION OF  
; TITLE OF INVENTION: MICRORNA  
; FILE REFERENCE: STG-114  
; CURRENT APPLICATION NUMBER: US/11/084,082  
; CURRENT FILING DATE: 2005-03-21  
; NUMBER OF SEQ ID NOS: 41  
; SOFTWARE: PatentIn Ver. 3.3  
; SEQ ID NO 26  
; LENGTH: 78  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
US-11-084-082-26

Query Match 100.0%; Score 22; DB 7; Length 78;  
Best Local Similarity 68.2%; Pred. No. 0.11;  
Matches 15; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

Qy 1 UAGCAGACAUAUGGUGUG 22  
:|||||:|||||:  
Db 49 TAGCAGACATTAATGCTTTGTG 28

RESULT 12  
US-11-194-055-33  
; Sequence 33, Application US/11194055  
; Publication No. US20060105360A1  
; GENERAL INFORMATION:  
; APPLICANT: Croce, Carlo M.  
; APPLICANT: Liu, Chang-Gong  
; APPLICANT: Cinczia, Sevianni  
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF CANCERS WITH  
; TITLE OF INVENTION: MICRORNA LOCATED IN OR NEAR CANCER-ASSOCIATED CHROMOSOMAL  
; FILE REFERENCE: 3589.1018-008  
; CURRENT APPLICATION NUMBER: US/11/194,055  
; CURRENT FILING DATE: 2005-07-29  
; PRIOR APPLICATION NUMBER: PCT/US2005/004865  
; PRIOR FILING DATE: 2005-02-09  
; PRIOR APPLICATION NUMBER: 60/543,119  
; PRIOR FILING DATE: 2004-02-09  
; PRIOR APPLICATION NUMBER: 60/542,929  
; PRIOR FILING DATE: 2004-02-09  
; PRIOR APPLICATION NUMBER: 60/542,963  
; PRIOR FILING DATE: 2004-02-09  
; PRIOR APPLICATION NUMBER: 60/542,940  
; PRIOR FILING DATE: 2004-02-09  
; PRIOR APPLICATION NUMBER: 60/580,959  
; PRIOR FILING DATE: 2004-06-18  
; PRIOR APPLICATION NUMBER: 60/580,797  
; PRIOR FILING DATE: 2004-06-18  
; NUMBER OF SEQ ID NOS: 663  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 33  
; LENGTH: 83  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-11-194-055-33

Query Match 100.0%; Score 22; DB 8; Length 83;  
Best Local Similarity 68.2%; Pred. No. 0.11;  
Matches 15; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

Qy 1 UAGCAGACAUAUGGUGUG 22  
:|||||:|||||:  
Db 14 TAGCAGACATTAATGCTTTGTG 35

RESULT 13  
US-11-375-650-1  
; Sequence 1, Application US/11375650  
; Publication No. US20060165659A1  
; GENERAL INFORMATION:  
; APPLICANT: Croce, Carlo M.  
; APPLICANT: Cinczia, Sevianni  
; TITLE OF INVENTION: Compositions and Methods for Cancer  
; TITLE OF INVENTION: Diagnosis and Therapy  
; FILE REFERENCE: 08321-0126US1  
; CURRENT APPLICATION NUMBER: US/11/375,650  
; CURRENT FILING DATE: 2006-03-13  
; PRIOR APPLICATION NUMBER: US/10/706,798  
; PRIOR FILING DATE: 2003-11-12  
; PRIOR APPLICATION NUMBER: 60/425,864  
; PRIOR FILING DATE: 2002-11-13  
; PRIOR APPLICATION NUMBER: 60/469,464  
; PRIOR FILING DATE: 2003-05-09  
; NUMBER OF SEQ ID NOS: 54  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1  
; LENGTH: 83  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-375-650-1

Query Match 100.0%; Score 22; DB 9; Length 83;  
Best Local Similarity 100.0%; Pred. No. 0.11;  
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 UAGCAGACAUAUGGUGUG 22  
:|||||:|||||:  
Db 14 UAGCAGACAUAUGGUGUG 35

RESULT 14  
US-11-194-055-32  
; Sequence 32, Application US/11194055  
; Publication No. US20060105360A1  
; GENERAL INFORMATION:  
; APPLICANT: Croce, Carlo M.  
; APPLICANT: Liu, Chang-Gong  
; APPLICANT: Cinczia, Sevianni  
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF CANCERS WITH  
; TITLE OF INVENTION: MICRORNA LOCATED IN OR NEAR CANCER-ASSOCIATED CHROMOSOMAL  
; FILE REFERENCE: 3589.1018-008  
; CURRENT APPLICATION NUMBER: US/11/194,055  
; CURRENT FILING DATE: 2005-07-29  
; PRIOR APPLICATION NUMBER: PCT/US2005/004865  
; PRIOR FILING DATE: 2005-02-09  
; PRIOR APPLICATION NUMBER: 60/543,119  
; PRIOR FILING DATE: 2004-02-09  
; PRIOR APPLICATION NUMBER: 60/542,929  
; PRIOR FILING DATE: 2004-02-09  
; PRIOR APPLICATION NUMBER: 60/542,963  
; PRIOR FILING DATE: 2004-02-09  
; PRIOR APPLICATION NUMBER: 60/542,940  
; PRIOR FILING DATE: 2004-02-09  
; PRIOR APPLICATION NUMBER: 60/580,959  
; PRIOR FILING DATE: 2004-06-18  
; PRIOR APPLICATION NUMBER: 60/580,797

; PRIOR FILING DATE: 2004-06-18  
; NUMBER OF SEQ ID NOS: 663  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 32  
; LENGTH: 108  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-11-194-055-32

Query Match 100.0%; Score 22; DB 8; Length 108;  
Best Local Similarity 68.2%; Pred. No. 0.12;  
Matches 15; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

QY 1 UAGCAGCACAUAVGUGUUG 22  
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Db 43 TAGCAGCACATATAGTTGTG 64

RESULT 15  
US-11-266-748A-23474/c  
; Sequence 23474, Application US/11266748A  
; Publication No. US20060134663A1  
; GENERAL INFORMATION:  
; APPLICANT: Harkin, Paul  
; APPLICANT: Johnston, Patrick  
; APPLICANT: Mulligan, Karl  
; TITLE OF INVENTION: Transcriptome Microarray Technology and  
; TITLE OF INVENTION: Methods of Using the Same  
; FILE REFERENCE: 55815-0102 (319189)  
; CURRENT APPLICATION NUMBER: US/11/266,748A  
; PRIOR FILING DATE: 2005-11-03  
; PRIOR APPLICATION NUMBER: EP 04105479.2  
; PRIOR FILING DATE: 2004-11-03  
; PRIOR APPLICATION NUMBER: EP 04105482.6  
; PRIOR FILING DATE: 2004-11-03  
; PRIOR APPLICATION NUMBER: EP 04105483.4  
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; PRIOR APPLICATION NUMBER: EP 04105507.0  
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; PRIOR APPLICATION NUMBER: EP 04105485.9  
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; PRIOR APPLICATION NUMBER: EP 04105484.2  
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; PRIOR APPLICATION NUMBER: EP 04105484.2  
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; PRIOR APPLICATION NUMBER: US 60/662,276  
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; PRIOR FILING DATE: 2005-07-18  
; NUMBER OF SEQ ID NOS: 483996  
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; LENGTH: 347503  
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US-11-266-748A-23474

Query Match 100.0%; Score 22; DB 8; Length 347503;  
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